1975

College of Technology, Bolton Street Prospectus 1975-76

City of Dublin Vocational Education Committee

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<tr>
<th>Date</th>
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<tr>
<td>1975—SEPT.</td>
<td>Commencement of Session.</td>
</tr>
<tr>
<td>Monday 1st</td>
<td>Interviews for Whole-time Day Courses commence (Applicants will be notified of the exact date and time of interview). Interviews and enrolments for Part-time Technician Courses and Evening Courses commence. Part-time Day courses for Apprentices commence.</td>
</tr>
<tr>
<td>Monday 8th</td>
<td>Whole-time courses commence except where otherwise arranged.</td>
</tr>
<tr>
<td></td>
<td>Evening Classes commence.</td>
</tr>
<tr>
<td>Monday 22nd</td>
<td>Votive Mass. All classes closed.</td>
</tr>
<tr>
<td>OCT.</td>
<td>All classes closed.</td>
</tr>
<tr>
<td>Wednesday 22nd</td>
<td>Votive Mass. All classes closed.</td>
</tr>
<tr>
<td>Friday 31st</td>
<td>All classes closed.</td>
</tr>
<tr>
<td>NOV.</td>
<td>All classes closed.</td>
</tr>
<tr>
<td>Monday 3rd</td>
<td>All classes closed.</td>
</tr>
<tr>
<td>DEC.</td>
<td>All classes closed.</td>
</tr>
<tr>
<td>Monday 8th</td>
<td>All classes closed.</td>
</tr>
<tr>
<td>Friday 19th</td>
<td>Final class meetings before Christmas vacation.</td>
</tr>
<tr>
<td>1976—JAN.</td>
<td>All classes resume after Christmas vacation.</td>
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<tr>
<td>Wednesday 7th</td>
<td>All classes resume after Christmas vacation.</td>
</tr>
<tr>
<td>MAR.</td>
<td>Public holiday. College closed.</td>
</tr>
<tr>
<td>Wednesday 17th</td>
<td>Final class meetings before Easter vacation. All evening classes terminate except where otherwise arranged.</td>
</tr>
<tr>
<td>APR.</td>
<td>Day classes resume after Easter vacation.</td>
</tr>
<tr>
<td>Tuesday 13th</td>
<td>Classes for Whole-time courses terminate.</td>
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<tr>
<td>Monday 26th</td>
<td>Bank holiday. College closed.</td>
</tr>
<tr>
<td>MAY</td>
<td>All classes closed.</td>
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<tr>
<td>Friday 28th</td>
<td>Bank holiday. College closed.</td>
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<tr>
<td>JUNE</td>
<td>All classes closed.</td>
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<tr>
<td>Monday 7th</td>
<td>All classes closed.</td>
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<tr>
<td>Thursday 17th</td>
<td>All classes closed.</td>
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The College is closed on all Bank Holidays not specified above.
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COLLEGE COUNCIL

Mr Patrick Donegan (Chairman) 121 Shanard Road Santry Dublin 9
Dr John D Barry Principal
Mr Joseph N Bernie Teaching Staff Representative
Mr Thomas Bridgeman “Treetops” Swords Road Dublin 9
Alderman Kevin Byrne 62 St Mary’s Road East Wall Dublin 3
Mr Anthony Harkin 52 Farney Park Dublin 4
Mr J C O’Grady 18 Greenmount Road Dublin 6
Rev Mgr J O’Regan STL PP Sandymount Dublin 4
Mr Michael Scott 19 Merrion Square Dublin 2
Professor David Simms Trinity College Dublin 2
Mr Senan Turnbull Students' Union Representative
Professor William Wright Trinity College Dublin 2
# GUIDE TO COURSES

## Technological Technician Courses (Day)

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<tr>
<td>D42S. Professional Course in Mechanical, Production &amp; Structural Engineering, Whole-time.</td>
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<td>D43C. Civil Engineering Technicians' Course, Part-time.</td>
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<td>D43V. Heating, Ventilating &amp; Airconditioning Technicians' Course, Part-time.</td>
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<td>E43M. Instrumentation Technicians' Course.</td>
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<td>E43S. Structural Engineering Draughtsmanship Course.</td>
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<td>E43V. Heating, Ventilating and Airconditioning Technicians' Course.</td>
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<td>E44. Motor Industry Management Course.</td>
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<td>E88C. Lithography and Photo Lithography.</td>
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<td>E88D. Bookbinding and Print Finishing.</td>
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<td>E88E. Graphic Reproduction.</td>
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<td>E89A. Printing Production Management (Departmental).</td>
<td>65</td>
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<td>E89B. Printing Production Management (Works).</td>
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Guide to Courses

Short Courses
Each session, short courses are held consisting typically of eight to twelve lectures relating to special aspects of Building, Engineering or Printing Technology. Details of these are advertised in the newspapers.

Trade Courses (Day)

Engineering
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D127. Automobile Engineering, Part-time. 39
D128. Automobile Engineering, Part-time. 40
D129. Motor Vehicle Technicians, Part-time. 40
D130. Motor Vehicle Parts (City & Guilds), Part-time. 40
D131. Motor Vehicle Electricians (City & Guilds), Part-time. 41
D132. Motor Vehicle Body Repair (City & Guilds), Part-time. 41
D136. Automobile Engineering. 41
D141. Fitting and Turning, Block release. 41

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D190. Composers' Work, Block release. 45
D191. Bookbinding and Warehouse Work, Block release. 45
D192. Lithography and Photo-Lithography, Block release. 46
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School of Trades
D101. Bricklaying, Part-time. 48
D102. Plastering, Part-time. 48
D105. Painting and Decorating, Part-time. 48
D107. Vehicle Building, Part-time. 48
D108. Vehicle Trimming, Part-time. 48
D111. Cabinet Making, Part-time. 48
D112. Upholstery, Part-time. 48
D113. Woodfinishing, Part-time. 48
D121. Carpenters & Joinery, Part-time. 48
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D150. Meal Fabrication, Part-time. 48
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INTRODUCTION

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

The first whole-time day courses commenced in 1920 with the inauguration of the Apprentice Scholarship Scheme. With the establishment of an Irish Government, technical education came within the province of the Department of Education and a Commission set up in 1926 made recommendations on development which led to the Vocational Education Act of 1930. The system of schools and colleges expanded in succeeding decades under the City of Dublin Vocational Education Committee, and the Bolton Street College was enlarged by new buildings in 1958 and 1963.

The development of professional and technician courses began in the 1940's and these over the years gained the recognition of professional and vocational bodies in Ireland and other countries. The College now accommodates full-time and part-time courses in apprentice, technician and technological education.

City of Dublin V.E.C.:

The College operates under the City of Dublin Vocational Education Committee. It is responsible for the provision of educational programmes and for the overall administration of the College and is assisted by a number of committees, including the Joint Academic Council, the Board of Studies, the Building Committee and Planning Sub-Committee. The Principal or his nominee represents the College on these Committees.

There are also Advisory Committees for major disciplines which assist the V.E.C. and the College in keeping courses abreast of developments in the professional and industrial fields.

College Council:

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

The Academic Board:

The Academic Board has responsibility for the College academic programmes. It comprises the Principal, the Heads of Schools and the Heads of Departments of the College.

Departmental Boards:

Departmental Boards comprised of staff and student representatives are concerned with development of Departments' courses and facilities. There are also Course Committees to advise on development of major courses.

GENERAL INFORMATION & REGULATIONS

Applications:

Applications for admission to whole-time courses should be submitted not later than 31st August, 1975, on the form obtainable from the Secretary. Applications received before 31st July, 1975, will receive priority. Documentary evidence of qualifications should accompany all applications. Candidates awaiting results of examinations should make provisional application. Results should be forwarded in support of applications as soon as they become available. In the case of part-time and evening courses it is not necessary to make application for admission in advance of the enrolment date for the course.

Intending students are advised that as from 1976 the closing date for receipt of applications for whole-time courses will be 30th June.

Admission and Enrolment:

Before acceptance of an application for admission to classes or courses the applicant must attend in person for interview and the College must be satisfied as to his ability to benefit from the proposed courses or classes. The College may require an applicant to sit an aptitude or other test before admission. Successful applicants for whole-time courses will be notified in writing during the week commencing 22nd September, 1975, and invited to register for the course immediately. Students attending for registration and enrolment are required to have the following:

(a) Letter of acceptance for the course (only required in the case of students for wholetime courses).

(b) Two copies of a recent photograph of passport type and size.

(c) Tuition fees for the course or a letter from a Local Authority or other recognised body confirming that it will be responsible for the payment of tuition fees.

In the session 1975/76 the latest date for admission of students to classes commencing in the first term is 21st October, 1975. Only in exceptional circumstances and subject to the additional payment of a late fee of £5.00 will applicants be admitted after that date.

All new students will be issued with an Identity Card. Students who were enrolled in the College in previous sessions must present the Identity Card previously issued to them for re-endorsement for the new session. The Identity Card is the property of the College and may be demanded by the College or its officers at any time. Students are therefore required to have their Identity Cards with them while in College. A charge of £1.00 will be made for replacement of Identity Cards and new photographs will be required.

Change of address or place of employment should be reported to the College Office immediately.

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

Fees are payable on enrolment 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 fees paid. The official receipt must be presented on first attendance at each class.

Grants and Scholarships

Local Authorities are empowered to make Higher Education grants to eligible students to enable them to pursue courses of higher education at universities and comparable institutions.

The following courses offered by the College qualify for these grants: Architecture (D1), Engineering (D4), Construction Economics (D4), Environmental Economics (D3).

Applications for these grants should be addressed to the Secretary of the Local Authority in whose area the student's parents normally reside.

Vocational Education Committees are empowered to award scholarships to students from their area attending Technician and other third-level courses at the College. Applications for these scholarships should be directed to the VEC of the area where the student's parents normally reside.

Ivan Webb Scholarship: 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. Two scholarships valued at £250 per annum will be awarded to the students who obtain first and second place in the College examinations at the end of the first year of the whole-time Higher Building Technician Course. The Scholarships are payable in respect of the final two years of the course.

Classes

Day classes will normally be held during the period 9.00 a.m. to 1.00 p.m. and 2.00 p.m. to 6.00 p.m. each week-day. Evening classes will normally be held from 7.00 p.m. to 10.00 p.m. except where otherwise arranged.

Formation and Continuance of Classes

The College may 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 cannot attend, classes may be cancelled without notice.

Trade Courses

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

Accordingly the College reserves the right to restrict enrolment in the trade practical classes to those persons who are actually employed in the several processes and operations of the trade. For admission to these classes proof of actual employment in the several processes and operations of the trade will be certificates to that effect from the Masters' Association and/or the official Trades Unions of the trade concerned.

Overseas Students

Overseas students are required to hold the General Certificate of Education Ordinary Level in six subjects including English and Mathematics or equivalent qualifications. In addition applicants for professional or degree level courses are required to have a minimum of two G.C.E. advanced level subjects or equivalent. 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 application will be accepted from overseas applicants for admission to part-time day or evening courses.

Examinations

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

Examinations are held at the end of each session or stage and are regulated by the College Academic Board and the Examination Board.

An examination fee of £5.00 is payable in respect of College sessional examinations.

The closing date for receipt of College Examination fees is 27th February, 1976. In exceptional circumstances and at the discretion of the College Examination Board Executive a candidate may be allowed to enter for a College examination up to 31st March, 1976, subject to the additional payment of a late fee of £5.00.

Promotion to a higher year or stage in any subject is contingent on reaching the required standard in the sessional examination in the lower grade.

A candidate unsuccessful in a sessional examination may be permitted to sit a supplemental examination in relation to the same session where such is offered in accordance with the regulations established for his course. Candidates may sit for one such supplemental
Other Examinations

The College is a centre for a number of external examinations including the General Certificate of Education of the University of London, the Department of Education, the City & Guilds of London Institute. Application for entry to these examinations must be made through the College Office in accordance with the closing dates as indicated on College Notice Boards.

In connection with the examinations of professional and other external bodies, students are advised to note the following:

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

The NCEA was established by the Government in 1972 for the purpose of awarding qualifications to technicians and technologists attending non-university institutions. Already some engineering students have been awarded National Certificates and Diplomas and submissions have been made by the College seeking awards in respect of a number of other courses.

National Council for Educational Awards

Office Hours

General Information and Regulations

General regulations for Colleges and classes operating under the Authority of the City of Dublin Vocational Education Committee are displayed in the Entrance Hall. All students are subject to these regulations.

The Vocational Education Committee may expel any student without refund of fees, for irregular or unpunctual attendance or for any other reason which in the opinion of the College Council, justifies expulsion. Three successive absences from any class may lead to suspension from the entire course, unless a satisfactory written explanation is submitted to the Head of Department.

Students must provide themselves with such books, instruments and equipment (including special clothing) as their classes may, in the opinion of the College, require.

Students are required at all times to obey the lawful instructions of lecturers and other members of the College staff. Misconduct in the College or its grounds may lead to suspension or expulsion. All lecturers 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 invited in order to maintain the dignity and discipline of the College.

Students are liable for the cost of repair or replacement of any College property damaged by them.

Students are not permitted to smoke in the College classrooms, laboratories, lecture theatres, workshops, library or gymnasium.

Parking of pedal and motor cycles in the space provided in the College grounds is normally permitted. Students are not permitted to bring cars into the College parking area.

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

Locker accommodation is available for a considerable number of students on payment of a fee of £3.00 per session. This includes a deposit of £2.00 returnable only if the locker key is surrendered within seven days of the expiry of the period for which the locker has been granted, i.e., before 15th June, 1976.

Office Hours: 9.00 a.m. to 12.45 p.m. and 2.15 p.m. to 5.00 p.m. Monday to Friday, and at special periods of the year at times which will be posted on the Notice Board. Except during enrolment periods members of the staff will not be available for interviews or consultations except by prior appointment.

Canteen Facilities

The College Canteen is open throughout the session for lunches, teas and morning and afternoon snacks.
The Library

The Library plays a vital part in the academic structure and programmes of the College. It provides a comprehensive information service, and study facilities for students and staff. While the emphasis in the book collection is on the major college disciplines, there is a gradual build-up of other subject areas. A phased development plan at present under way will increase the total stock from the existing 16,000 volumes to 25,000 volumes by 1977. The Library also receives 400 current periodicals.

The Library maintains close links with the City of Dublin Public Library system of which it forms part and it has access to the total holdings of that system. It also has close links with the Libraries of An Foras Forbartha, the Institute for Industrial Research & Standards, the Universities and other Research Institutes both here and abroad. Through these links photocopied material and books on inter-library loan may be quickly obtained. By arrangement facilities may also be provided for staff and senior students to use these libraries for research purposes.

The Library contains an open access stack area, a periodicals and reference area and a reading area which provides seating for 200 readers.

A lending scheme is in operation for all books. There is a coin operated photo-copying machine in the library for the use of readers.

First year students are given introductory lectures on the use of the library by the librarian. Library publications include a current list of periodicals and a monthly accession list.

Hours of opening:
In Term Monday to Friday 9.30—21.30 Saturday 9.30—13.00
Summer Term Monday to Friday 9.30—21.30 Saturday 9.30—17.00
Vacation Monday to Friday 9.30—17.30.

The Students' Union

The Students' Union is the students' representative body 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 the involvement of its members. It is administered by an executive which is elected by the student body.

The Union President is a full-time sabbatical officer with a wide range of tasks and responsibilities.

Each class in the College elects a representative to the Students' Union Council. In addition College Societies and the Union Executive are represented on the SUC and it is a forum for discussion and decision making.

The ultimate decision-making body of the Union is the General Meeting which is a meeting of the whole student body.

Functions of the Union:

1. To represent the views of its members.

This the Union does at College level by representing the students on the College Council, Library and Canteen 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 guest speakers. The Union also maintains a comfortable Common Room where students may meet, have discussions or just relax.

The College Societies are also under the umbrella of the Union and, as well as parties, they organise trips, lectures and concerts. The Sports' Council acts as the co-ordinating body for the many sporting activities in the College.

3. To provide services for members.

The Student Shop (D1) provides stationery, newspapers, sweets, drawing equipment and textbooks. It also issues International Student Identity Cards and provides information on student travel.

Union Offices: Room A51.
DAY COURSES
School of Architecture
Surveying and Building

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

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

The Construction Economist, according to his specialisation, may be concerned, as quantity surveyor, with projects, economics or with the management of the building operation.

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

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

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

DIPLOMA COURSE IN ARCHITECTURE

This is a five-year whole-time course leading to the Diploma in Architecture. Graduates from the course become eligible for membership of the Royal Institute of the Architects of Ireland after they have completed the requirements relating to practical experience and professional practice.

Students are required to have not less than 75% attendance at lectures and studio work in each session before being eligible to take the sessional, or other examinations. All subjects must be passed in any year of the course before a student can be considered for promotion to the next year of the course. Success in the Third Year gives exemption from the Intermediate Examinations of the Royal Institute of the Architects of Ireland.

Entrance Standard

The minimum preliminary educational qualifications required for direct entry, subject to interview and suitability assessment by the Interview Board, are:

(a) The Department of Education Leaving Certificate with not lower than Grade D in a minimum of four subjects and at least two other subjects at Grade A, B or C on the Higher Level Course or
(b) equivalent qualifications (i.e. Matriculation of the National University of Ireland) or
(c) The General Certificate of Education with not lower than Grade D in four subjects and at least two other subjects at Advanced Level.

Note: Subjects must include Mathematics and English.

Subjects of Instruction are

First Year

Studio Work; Building Construction and Materials; History of Architecture; Theory of Architecture; Mathematics and Statistics; Mechanics; Physics; Chemistry; Geometry; Craftwork.

Second Year

Studio Work; Theory of Architecture; Irish Art and Architecture; Art and Civilisation; Building Construction and Materials; Building Services I; Theory of Structures; Physics; Chemistry.

Third Year

Studio Work; Theory of Architecture; History of Town Planning; Interior Design; Building Construction; Building Practice; Building Services II; Building Materials; Structural Engineering; Surveying and Levelling.

Fourth Year

Studio Work; Theory of Architecture; History of Architecture; Building Construction; Structural Engineering; Professional Practice; Interior Design (including Furniture design); Town Planning Theory; Urban Design (including Sociology); Economics and Cost Control; Landscape Design.

Fifth Year

Studio Work; Structural Engineering; Professional Practice; Town Planning (Theory); Specifications and Materials; Economics and Cost Control; History of Architecture.

Note

Studio Work includes Architectural Drawing, Architectural Design, Building Construction, Drawing, Graphics and in the case of the First Year only, Geometrical Drawing, and in the case of the Fourth and Fifth Years, Landscape Design.

Fee £53.00 per annum.

D6.

URAL DESIGN (POST GRADUATE).

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

D8.

CERTIFICATE COURSE FOR ARCHITECTURAL TECHNICIANS

This is a three-year whole-time course designed to train Architectural Technicians and leading to the Architectural Technicians' Certificate. The Final examination of the course is accepted as a qualification for Technician membership of the Royal Institute of the Architects of Ireland, for Associate membership of the Institute of Architectural and Associate Technicians, and for membership after two years of practical experience. The course extends from mid-October to mid-May and during the Summer vacation students are required to gain approved practical experience in professional offices. This vacation work is optional between 1st and 2nd year and mandatory between the 2nd and 3rd year.

Entrance Standard

The Secondary Schools' Leaving Certificate in five subjects which must include Mathematics and English.

Subjects

First Year


Second Year


Third Year


Fee £38.00 per annum.

D10.

CERTIFICATE COURSE FOR PLANNING TECHNICIANS

Commencement of course is subject to additional accommodation and finance being available to the College.
D3. DIPLOMA COURSE IN ENVIRONMENTAL ECONOMICS
This is a four year course leading to a Diploma in Environmental Economics. It is designed for those who wish to work as Valuers, Estate Agents, Property Advisers, Developers and Planners in either private or public employment. Holders of this Diploma are exempted from all academic examinations leading to Corporate Membership of the Royal Institution of Chartered Surveyors, Valuation, Estate Agency and Planning Division, and from the Intermediate examination of the Royal Town Planning Institute. The course is also recognised by the Irish Auctioneers' and Valuers' Institute. Holders of the Diploma in Environmental Economics are accepted for entry to appropriate University Post Graduate courses in Ireland and abroad.

Subjects
First Year
Mathematics; Environmental Science; Accountancy; Economics; Principles of Valuation; Construction Technology; Introduction to Environmental and Construction Law; Communications.
Second Year
Applied Valuation; Introduction to Planning; Applied Economics; Environmental Law (Property); Local Government; Construction Technology; Land Surveying; Applied Statistics; Computer Usage and Applications.
Third and Fourth Years
Applied Valuation; Theory and Application of Planning; Environmental Law (Property, Administrative); Urban Economics; Taxation; Building Management and Maintenance; Investment Analysis; Urban Sociology; Plan and Photo Applications; Professional Practice.
The third year of the course is project based and examined by continuous assessment. In the fourth year, students prepare a major dissertation as part of their final Diploma examination.

Practical Experience
Students are required to gain Industrial and Professional experience during the extended summer vacations.

Entry Qualifications
Entry to the course is by selection following interview of those applicants holding the following minimum qualifications:
(a) The Secondary Schools Leaving Certificate in at least six subjects including Mathematics and English with a minimum Grade C in two subjects at Higher Level
OR
(b) The Matriculation Certificate of a recognised University
OR
(c) The General Certificate of Education with a minimum of two subjects at Advanced Level and four subjects at Ordinary Level including Mathematics and English Language or Literature.

Fee £53.00 per annum.

D4. DIPLOMA COURSE IN CONSTRUCTION ECONOMICS
This is a four year course leading to a Diploma in Construction Economics and is designed for those who wish to work as Quantity Surveyors, Economic Advisers in the Construction Industry, Building Development Co-ordinators and Building Managers. Holders of this Diploma are exempted from all academic examinations leading to Corporate Membership of the Royal Institution of Chartered Surveyors, Quantity Surveying Division, The Institute of Building, The Institute of Quantity Surveyors and the Construction Surveyors' Institute. Holders of the Diploma in Construction Economics are accepted for entry to appropriate University Post-Graduate courses in Ireland and abroad.

Subjects
First Year
Mathematics; Environmental Science; Accountancy; Economics; Principles of Measurement; Construction Technology; Introduction to Environmental and Construction Law; Communications.
Second Year
Quantities; Cost Accountancy; Applied Economics; Construction Law (Contract and Tort); Land Surveying; Applied Statistics; Construction Technology; Computer Usage and Applications.
Third and Fourth Years
Construction Technology; Building and Civil Engineering Quantities; Construction Law (Contract and Tort, Administrative); Principles of Structural Design; Maintenance of Buildings; Management; Management Accountancy; Financial Administration; Site and Production Management; Construction Economics.
The third year of the course is project based and examined by continuous assessment. In the fourth year students prepare a major dissertation as part of their final Diploma examination.

Practical Experience
Students are required to gain Industrial and Professional experience during the extended summer vacations.

Entry Qualifications
Entry to the course is by selection following interview of those applicants holding the following minimum qualifications:
(a) The Secondary Schools Leaving Certificate in at least six subjects including Mathematics and English with a minimum Grade C in two subjects at Higher Level
OR
(b) The Matriculation Certificate of a recognised University
OR
(c) The General Certificate of Education with a minimum of two subjects at Advanced Level and four subjects at Ordinary Level including Mathematics and English Language or Literature.

Fee £53.00 per annum.
D5A. GEO-SURVEYING TECHNICIAN COURSE

This is a two year whole-time Technician Certificate course in Surveying with an optional third year for the award of a Diploma, which prepares students for careers in land and mining surveying in both public and private employment. Recognition of this course by the N.C.E.A. for the award of a National Certificate and Diploma is being sought.

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

Second Year
Elements of Law and Administration; Geology; Land Survey; Mine and Engineering Survey; Elements of Hydrographic Survey; Mineral Technology; Engineering Economics; Introduction to Photogrammetry.

Third Year
A specialisation selected from the following: Land Survey, Mine and Engineering Survey, Photogrammetry, Mineral Technology.

Practical Experience
Field camps are conducted at the end of the first year and also at the end of the second year for those proceeding to the third year of the course. In addition students are required to gain field experience during the summer vacation.

Entry Qualifications
The Secondary Schools Leaving Certificate with passes in a minimum of five subjects including Mathematics and English or a recognised equivalent. Preference will be given to those applicants with good grades in Mathematics.

Tuition Fee £38:00 per annum payable on enrolment.

D7. DIPLOMA COURSE IN HEALTH INSPECTION

A course of three years' duration organised in consultation with the Department of Health and the Health Inspectors' Training Board. The Department of Health is responsible for the selection of students. Enquiries regarding this course should be addressed to Health Inspectors' Training Board, Customs House, Dublin 1.

Subjects

First Year
Biology; Micro Biology; Anatomy and Physiology; Chemistry; Physics; Building Construction I; Local Government Law and Administration; Food Hygiene; Public Health Law; Entomology and Parasitology; Meat Inspection; Sewage and Sewage Disposal; Philosophy I; Tutorial.

Second Year
Vital Statistics; Micro Biology; Food and Food Inspection; Port and Airport Sanitation; Pest Control; Heating, Lighting and Ventilation I; Atmospheric Pollution; Offensive Trades; Building Construction II; Public Health Law and Administration (Housing Law); Drainage; Water Supplies; Meat Inspection; Infectious Diseases; Public Cleansing; Philosophy II; Tutorial.

Third Year
Radiation; Health Education; Food and Food Inspection; Specifications and Quantities; Public Health Law and Administration; Water Supply; Atmospheric Pollution; Building Hygiene and Housing Administration; Heating, Lighting and Ventilation II; Building Construction III; Philosophy III; Tutorial.

Practical Experience
Students spend the periods of the summer vacations in the field.

Entry Qualifications
(a) The Secondary Schools Leaving Certificate, or
(b) The Matriculation Certificate of a recognised University, or
(c) The General Certificate of Education.

Fee £53·00 per annum.
HIGHER BUILDING TECHNICIANS' CERTIFICATE COURSE

This is a three year full-time course leading to a Certificate in Building Technology and is designed for those who wish to work at middle management level in the Building Industry. The course is recognised by the City & Guilds of London Institute for purposes of the award of their Higher Construction Technicians' Diploma. Holders of this Certificate qualify for Licentiateship of the Institute of Building, Building Surveyors' Institute and Construction Surveyors Institute and Technician membership of the Incorporated Association of Architects and Surveyors.

First Year
Communications; Land Surveying; Mathematics; Environmental Science; Accountancy; Quantities and Specifications; Construction Technology.

Second Year
Law and Administration; Land Surveying; Construction Technology; Quantities; Estimation and Price Build Up.

Third Year
Law and Administration; Construction Technology; Quantities; Variations; Management.

Full-time students are required to gain industrial experience during the summer vacation.

Entry to the course is by selection following interview of those applicants holding the following minimum qualifications:
(a) The secondary schools Leaving Certificate in at least five subjects OR
(b) The Matriculation Certificate of a recognised University OR
(c) The General Certificate of Education.

Fee £38.00 per annum.

This course is also available on a day release basis (Course D2B) involving attendance on one day and two evenings per week for a period of four years. Alternatively it may be taken on a part-time basis (Course E2C) involving attendance on three evenings per week for a period of at least five years. Entry to these courses is open to those holding:
(a) Senior Trade Certificate, Leaving Certificate in at least five subjects or equivalent,
(b) Appropriate employment in the Construction Industry.

Fees: Day release course D2B £16.00 per annum,
Part-time course E2C £11.00 per annum.

SHORT-TERM COURSES

Short-term Courses in the Building and Project Management area will be held during the session.
These will be advertised in the National Press.
TECHNOLOGICAL AND TECHNICIAN COURSES

D40. PRELIMINARY ENGINEERING COURSE

This is a one-year whole-time course commencing each year about mid-September. Its purpose is to prepare suitable students for entrance to the Professional Engineering Courses D42M or D42S or for positions as trainee technicians in the Engineering industry.

Entrance Requirements
Leaving Certificate of the Department of Education with good passes in Mathematics, English, and three other subjects; or equivalent.

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

Examinations and Other Requirements
Students are required to:
(a) take a College examination at the end of the session;
(b) present laboratory notebooks and project work reports to the satisfaction of the College authorities.

Fees
Tuition fee: £38 per academic year payable on enrolment.
Examination fee: £5 per annum payable in January.

D42M. PROFESSIONAL COURSE IN ENGINEERING MECHANICAL AND PRODUCTION ENGINEERING

This is a four-year full-time course which prepares young people with a suitable aptitude and educational background for a career in Mechanical or Production Engineering and particularly for employment in manufacturing and process industries.

Entrance Requirements
(a) Leaving Certificate of the Department of Education in six subjects with Grade C or better in the higher course in Mathematics and a Science subject, preferably Physics; OR
(b) Such other qualifications as the College may deem to be equivalent. Students who fail to meet the above entrance requirements may be considered for entry to the Preliminary Engineering Course (D40).

Course of Study
Second Year—Mathematics, Principles of Electricity, Applied Mechanics, Thermodynamics, Fluids, Engineering Drawing, Physics, Production Processes, Complementary Studies, Workshop and Laboratory Work.

Third Year

Final Year
Mechanics of Materials, Mechanics of Machines, Engineering Design, Electrotechnology and Controls, Mathematics and Computer Applications and Management Studies, together with two other subjects, Thermodynamics and Fluids (Mechanical options), or Production Technology and Analysis of Manufacturing Systems (Production options).

In the Final Year, students are also required to carry out an individual design or research project and to submit a thesis on the work undertaken.

Recognition by Professional and Other Bodies
Students holding this Diploma meet the academic requirements for Membership of the Institution of Engineers of Ireland. It is also widely accepted by Universities in Ireland and abroad as meeting their academic requirements for entry into post-graduate courses.

Application has been made to the National Council for Educational Awards for a degree award for those who successfully complete the course.

Fees
Tuition fee: £53 per academic year payable on enrolment.
Examination fee: £5 per annum payable in January.

D42S. PROFESSIONAL COURSE IN ENGINEERING STRUCTURAL ENGINEERING

This is a four-year full-time course which prepares young people with a suitable aptitude and educational background for a career as Structural Engineers. Structural Engineering is branch of Civil Engineering related to the design of buildings, bridges, dams and other construction projects.
Technological and Technician Courses

Entrance Requirements
(a) Leaving Certificate of the Department of Education in six subjects with Grade C or better in the higher course in Mathematics and a Science subject, preferably Physics; OR
(b) Such other qualifications as the College may deem to be equivalent. Students who fail to meet the above entrance requirements may be considered for entry to the Preliminary Engineering Course (D40).

Course of Study
Second Year—Mathematics, Physics, Fluids, Mechanics, Structural Drawing and Design, Construction Technology, Surveying, Complementary Studies, and Laboratory Work.

Examination and Other Requirements
Progress to successive years of the course is decided on the basis of the student's work during the session, and success in the College sessional examination. It is an essential requirement of the course that the student completes a 2-3 month period gaining suitable practical experience during each summer and submits a report on it. Students who successfully complete this course are eligible for the award of the College Diploma in Engineering.

Recognition by Professional and Other Bodies
Students are encouraged to apply for Student Membership and later for Corporate Membership of the Institution of Engineers of Ireland and the Institution of Structural Engineers. Application is being made to the National Council for Educational Awards for a degree award for those who successfully complete the course.

Fees
Tuition fee: £53 per academic year payable on enrolment.
Examination fee: £5 per annum payable in January.

D43C. CIVIL ENGINEERING TECHNICIANS' CERTIFICATE COURSE
This part-time day and evening course prepares students for a Technician Certificate/Diploma in Civil Engineering. Students are expected to be already suitably employed in a Civil Engineering or Construction firm before commencing the course. It is also possible to pursue Stage 1 through one year of full-time study (see course D46C) before entering employment and then pursue Stage II as a part-time student over two years as outlined below.

Entrance Requirements
Leaving Certificate or equivalent in five subjects including Mathematics, and a Science subject (preferably Physics).

Course of Study
Stage III—Fifth and Sixth Years—Diploma Stage. This stage specialises in Municipal Engineering. Candidates are expected to be employed and gaining suitable experience in this field and are required to have passed the Certificate Stage with Credit, or have at least one year's suitable experience together with a Pass Certificate. Subjects: Mathematics, Road Engineering, Management Studies, Planning and Building Regulations, Hydraulics and Sanitary Services, Design and a project.

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

Tuition Fee £16.00 per annum payable on enrolment.
Examination Fee £5 per annum payable in January.

D43V. HEATING, VENTILATING + AIRCONDITIONING TECHNICIANS' COURSE
This is a part-time day and evening course intended to prepare suitable students for the City & Guilds of London examinations for the Heating, Ventilating & Airconditioning Technicians' Certificate (No. 632).

Entrance Requirements
(a) Satisfactory completion of the first year of Course D43M or
(b) Dept. of Education Intermediate Technological Certificate or
(c) Leaving Certificate with Honours in Mathematics, Physics and Drawing or
(d) GCE "O" Level in Mathematics, Physics, Drawing, and English.

Course of Study
First Year
Second Year
Technological and Technician Courses

Examinations and Other Requirements
At the end of the first year students take the Part I examination (No. 632) of the City & Guilds of London Institute, and they take Part II at the end of the second year.
Fee £16.00 per annum.

D44. DIPLOMA COURSE IN MOTOR INDUSTRY MANAGEMENT

This wholetime course prepares students for entry into the many and varied responsible positions in the Motor Industry. The course prepares students for the College examinations for the award of a Transport Engineering Technician Certificate at the end of two years' study and for the award of the Diploma in Motor Industry Management at the end of a further year's study.

Entrance Requirements
The entrance standard is Leaving Certificate or equivalent preferably with passes in Mathematics, Physics and English. Candidates will be called for interview before being finally accepted for admission to the course.

Course of Study
Third Year—Automobile Engineering, Mathematics, Motor Industry Management, Fleet Transport Management, Industrial Sociology, Accountancy, and a Project.

Examinations and Other Requirements
Examinations in Mechanical Engineering, and other examinations as suitable subjects. Students are required to pass examinations as follows:
(a) At the end of the first year the Department of Education Junior Trade Group Certificates and Elementary Stage Technological Examinations in Mechanical Engineering.
(b) At the end of the second year—the Department of Education Senior Trade Group Certificate, Intermediate Stage Technological Examinations in Mechanical Engineering and City and Guilds of London Institute Examination in Aeronautical Engineering Practice Part I.
(c) At the end of the third year—the Department of Education Senior Turning and Senior Workshop Technology and the Department of Transport & Power basic L.M.E. Certificate.

Recognition by Professional Bodies
Students qualifying for the award of the Diploma are eligible for full exemptions from the examination requirements of the Institute of Motor Industry.

Fees
Tuition fee: £38 per academic year payable on enrolment.
Examination fee: £5 per annum payable in January.

D45. AIRCRAFT TECHNICIANS' COURSE

This course is a three-year sandwich course to train Aircraft Technicians for the ICAO Licensed Maintenance Engineers' Licences issued by the Department of Transport and Power. Students attend the College from September to May Inclusive and spend the remainder of the year in the Aircraft Industry.

Entrance Requirements
(a) Intermediate Certificate of the Department of Education in suitable subjects,
(b) Day Group Certificate of the Department of Education in suitable subjects.

Course of Study
First Year
French, English, Social Science, Physics, Mechanics, Mathematics, Drawing, Chemistry, Workshop Technology, Workshop Practice, Aero-Laboratory and PT.
Second Year
As above except Heat Engines instead of Physics.
Third Year
As above together with Materials.

Examination and Other Requirements
Students are required to pass examinations as follows:
(a) At the end of the first year the Department of Education Junior Trade Group Certificates and Elementary Stage Technological Examinations in Mechanical Engineering.
(b) At the end of the second year—the Department of Education Senior Trade Group Certificate, Intermediate Stage Technological Examinations in Mechanical Engineering and City and Guilds of London Institute Examination in Aeronautical Engineering Practice Part I.
(c) At the end of the third year—the Department of Education Senior Turning and Senior Workshop Technology and the Department of Transport & Power basic L.M.E. Certificate.

Fee £38.00 per annum.
D46C. CIVIL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA COURSE

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

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

Third Year (Diploma Stage)—Students are expected to reach a high standard 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. The Diploma stage is specialised and is focused on Structural Design.

Course of Study

Second Year (Certificate Stage)—Structural Design and Detailing, Mathematics and Computation, Engineering Materials and Laboratory Work, Surveying, Construction Services and Supplies, Planning and Administration and Complementary Studies.

Third Year (Diploma Stage)—Theory of Structures, Structural Design, Municipal and Road Engineering, Mathematics and Data Processing, and Management Studies. It is also necessary for each student to complete an individual design or investigation project during this year of the course.

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

Recognition by Professional Bodies
Those who have successfully completed the Certificate Stage of this course are deemed to meet the academic requirements for Technician status by the Institution of Engineers of Ireland, while those who have completed the Diploma Stage are at Technician Engineer level. They can qualify for the non-Corporate Associateship grade of membership after they have completed a suitable period of practical training. Similar recognition has been given to the course by British professional engineering institutions and technician bodies.

Fees
Tuition fee: £38 per academic year, payable on enrolment.
Examination fee: £5 per annum, payable in January.

D46H. ENVIRONMENTAL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA COURSE

This course prepares students for a Technician Certificate award in Environmental Engineering at the end of two years and for a Technician Diploma award at the end of a further year of study. The students attend the College from the end of September until the end of May each year and they spend the Summer months gaining practical experience in Heating, Ventilating and Air Conditioning design in Consulting Engineers' offices and in industry.

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

Third Year (Diploma Stage)—Students are expected to reach a high standard 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.

Course of Study
First Year—Maths, Mechanics, Engineering Science, Drawing, Workshop Technology, Mechanical Services and Complementary Studies.


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

Recognition by Professional Bodies
Those who have successfully completed the Certificate Stage of this course are deemed to meet the academic requirements for Technician status by the Institution of Engineers of Ireland, while those who have completed the Diploma Stage are Technician Engineer level. They can qualify for the non-Corporate Associateship grade of membership after they have completed a suitable period of practical training. Similar recognition has been given to the course by some of the British professional engineering institutions and technician bodies.

Fees
Tuition fee: £38 per academic year, payable on enrolment.
Examination fee: £5 per annum, payable in January.
Technological and Technician Courses

D46M. MECHANICAL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA COURSE

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.

Entrance Requirements

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

Third Year (Diploma Stage)—Students are expected to reach a high standard 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. The Diploma stage is specialised. At present two options are offered—Process Plant or Manufacturing Technology.

Course of Study


Second Year—Mathematics, Mechanics, Energy Utilisation, Production Technology, Drawing and Design, Instrumentation and Controls, Engineering Laboratory and Complementary Studies.


Examinations and Other Requirements

(a) Students take a College examination at the end of each session, which is moderated by the National Council for Educational Awards.

(b) They are required to submit a report on their industrial training each year and also reports on their Project and laboratory work.

Recognition by Professional Bodies

Those who have successfully completed the Certificate Stage of this course are deemed to meet the academic requirements for Technician status by the Institution of Engineers of Ireland, while those who have completed the Diploma Stage are at Technician Engineer level. They can qualify for the non-Corporate Associateship grade of membership after they have completed a suitable period of practical training. Similar recognition has been given to the course by some of the British professional engineering institutions and technician bodies.

Fees

Tuition fee: £38 per academic year, payable on enrolment. Examination fee: £5 per annum, payable in January.

D47. PART-TIME MECHANICAL ENGINEERING TECHNICIANS' COURSE

This part-time day course is intended to prepare suitable students for the City & Guilds of London examinations for Mechanical Engineering Technicians (255). The course is for technicians and draughtsmen engaged in the following types of employment: Machine Tool Operation, Jig & Tool Design, Engineering Production and Design Draughtsmen.

Entrance Requirements

Elementary Stage Technological Certificate of the Department of Education examinations in Mechanical Engineering, Leaving Certificate or full endorsement in Final Craft Certificate with suitable craft background.

Course of Study

First Year


Second and Third Years

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

Fourth 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 third year, and Part III at the end of the fourth year.

Fee £16.00 per annum.

D47A. METALLURGICAL TECHNICIANS' COURSE

This is a part-time course to prepare students for the City & Guilds of London Examination for Metallurgical Technicians (154) Part I.

Duration of Course

One day and one evening per week over two years.

Entrance Requirements

Leaving Certificate.

Subjects

Principles of Metallurgy, Associated Science, Laboratory Work.

Fee

£16 per annum.
### TECHNOLOGICAL AND TECHNICIAN COURSES

#### D134. AUTO-ENGINEERING TECHNICIANS


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

**Subjects**

**Entrance Qualifications**
- Department of Education Intermediate Motor Car Engineering Technological Certificate (3 subjects) or the 390 City & Guilds of London Institute Parts I and II Certificate.

**Fee** £16.00 per annum.

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#### TRADE COURSES

The courses are for apprentices and young journeymen in the Engineering Trades. Every facility is given to students who wish to enter for the Trade Certificate Examinations of the Department of Education or of the City & Guilds of London Institute.

The examinations are conducted in the College at the end of the session. The courses are based on the examination syllabuses of these bodies. Generally, students take the Junior Stage of the Trade Certificate Examinations of the Department of Education after two years' instruction and the Senior Stage after a further two years.

#### D126. AUTOMOBILE ENGINEERING


**Duration of Course**
- Block Release Course of 11 weeks of 35 hours each week.

**Subjects**

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

#### D127. AUTOMOBILE ENGINEERING

The Department of Education Trade Certificate, Junior Stage, with endorsements and


**Duration of Course**
- 2 years of 38 weeks each year.

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

**Subjects**

**Entrance Qualifications**
- Day Vocational Group Certificate or Intermediate Certificate.
### Trade Courses

#### Duration of Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>D129. MOTOR VEHICLE TECHNICIANS—PART-TIME</td>
<td>38 weeks each year for 2 years.</td>
<td>A more advanced treatment of the subjects included in the Part I (380) course (D127).</td>
</tr>
<tr>
<td>D130. MOTOR VEHICLE PARTSMEN</td>
<td>2 years part-time day and evening course (9 hours per week).</td>
<td>The City and Guilds of London Institute Motor Vehicle Parts Certificate (381) Part II.</td>
</tr>
<tr>
<td>D131. MOTOR VEHICLE ELECTRICIANS</td>
<td>2 years part-time day and evening course (9 hours per week).</td>
<td>The City and Guilds of London Institute Motor Vehicle Electricians' Certificate (381) Part II.</td>
</tr>
<tr>
<td>D132. MOTOR VEHICLE BODY REPAIR</td>
<td>1 year part-time day and evening (9 hours per week).</td>
<td>City and Guilds of London Institute Motor Vehicle Body Repair (381) Part II.</td>
</tr>
<tr>
<td>D136. AUTOMOBILE ENGINEERING</td>
<td></td>
<td>Refresher courses, Short courses of 3 days' duration on modern developments and techniques in the industry for qualified motor mechanics.</td>
</tr>
<tr>
<td>D141. FITTING AND TURNING</td>
<td>Four year block release course (11 weeks duration).</td>
<td>Junior and Senior Trade Certificates, Department of Education.</td>
</tr>
</tbody>
</table>

#### Entrance Qualifications

<table>
<thead>
<tr>
<th>Course</th>
<th>Entrance Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>D129.</td>
<td>Department of Education Intermediate and Advanced Technological Certificates (Motor Car Engineering) and City and Guilds of London Motor Vehicle Technicians Certificate (390), Parts I and II. Students of the course will also take the Department of Education Senior Trade Certificate.</td>
</tr>
<tr>
<td>D141.</td>
<td>(380) Part I of the Certificate.</td>
</tr>
</tbody>
</table>

#### Additional Subjects

- **D130.** Parts Merchandising, Commercial Practice and Office Procedures, Stores Administration, Motor Vehicle Knowledge, General Studies including English.
SHORT COURSE PROGRAMME

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

(a) Low Cost Automation;
(b) Fluid Power;
(c) Maintenance Management Techniques;
(d) Modern Production Methods;
(e) New Developments in Welding Technology.

School of Printing + Book Production

The School provides courses at technological, technician and apprentice level in the following disciplines:

COMPOSING
The Composing Department covers the requirements of the Department of Education Syllabus up to Senior level and of the City and Guilds Advanced Certificate Syllabus. The curriculum includes instruction in Theory, Practice, Typographic Design, Mechanical Composition, Photocomposition including filmsetting and make-up, Applied Science, Liberal Studies and Irish.

PHOTOTYPGRAPHY
Courses in this section are for re-training compositors in the latest composing techniques in Film Assembly and Photo Headliner display setting.
There are also keyboard conversion courses on the IBM Composition System, combined with Photo Headliner display setting and paper make-up techniques.

LETTERPRESS MACHINE PRINTING
The Letterpress Department covers the requirements of the Department of Education Syllabus up to Senior level and of the City and Advanced Certificate Syllabus. The equipment includes a wide variety of handfed and automatic platens, automatic cylinder presses and a two-colour sheet-fed-rotary. Various types of anti set off spray are in use and a wide variety of ancillary aids and measuring instruments are provided, including pre-make ready equipment, mechanical overlays, a precision proofing press and a duplex register table. The curriculum includes instruction in Theory, Practice, Applied Science, Liberal Studies and Irish.

LITHOGRAPHY AND PHOTO LITHOGRAPHY
The Lithographic Department covers the requirements of the Department of Education Syllabus up to Senior level and of the City and Guilds Guilds Advanced Certificate Syllabus. The course provides a sound training in Photolithographic platemaking, step and repeat work and offset printing. It includes instruction in the Theory and Practice of Platemaking and Press operation, Applied Science and Liberal Studies.

BOOKBINDING AND PRINT FINISHING
The Bookbinding Department covers the requirements of the Department of Education Syllabus up to Senior level and of the City and Guilds Advanced Certificate Syllabus. The course provides experience in hand and mechanised bookbinding, finishing and print finishing processes and includes instruction in technical Theory and Practice, Applied Printing, Applied Science, Design and Liberal Studies.
**TECHNICIAN COURSES**

**D82. TRAINING FOR ADMINISTRATIVE STAFF**

This course is intended for those engaged in the administrative side of printing with a view to preparing them for higher administrative posts in the industry.

The age group for trainees is between 18 and 24 years, and the minimum educational qualification required is the Department of Education Leaving Certificate.

To secure optimum results the numbers enrolled for the course will be limited to a maximum of twelve each year.

The course occupies three years and attendance for one day and two evenings each week is required.

- **Year One**
  - Practical appreciation of the techniques of the work of hand and mechanical composing; Bookbinding and Print Finishing.
  - Graphic Reproduction; General Technical Knowledge.

- **Year Two**
  - Principles of Economics, Printing Office Procedure; Practical appreciation of the techniques of letterpress machine printing, photolitho platemaking and offset lithographic printing; photocomposition, typewriter composition, film and paper make-up;
  - Cost Accountancy for Printers, Estimating for Printers, Production Planning.

- **Year Three**

Fee £16.00 per annum.

**D181. BOOK PRODUCTION**

A one-year part-time (6 hours) course for students studying for the book production examination of the Librarians' Association.

Entrance Requirements
- Department of Education Leaving Certificate or equivalent qualifications.
- Fee £16.00 per annum.

**TRADE COURSES**

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

**D183. LETTERPRESS MACHINE PRINTING**

(Trade course)

Consecutive courses of 12-13 weeks' duration for apprentices. During each course the apprentices attending complete a stage of the Department of Education's syllabuses for the Junior, Intermediate and Senior Trade Certificate Examinations in Letterpress Machine Work. An examination in each stage is set by the Department of Education at the conclusion of each course.

**D184. PHOTO PROCESSES FOR GRAPHIC REPRODUCTION**

A block-release course of 12-13 weeks' duration for first and second year apprentices.

A school examination is set at the end of the first period.

Apprentices sit for the Basic Craft examination of the City & Guilds of London at the end of the second year.

**D190. COMPOSING**

(Trade course)

Consecutive courses of 12-13 weeks' duration for apprentices. During each course the apprentices attending complete a stage of the Department of Education's syllabuses for the Junior, Intermediate and Senior Trade Certificate Examinations in Composing. An examination in each stage is set by the Department of Education at the conclusion of each course.

**D191. BOOKBINDING**

(Trade course)

A block-release course of 12-13 weeks' duration for apprentices. During each course, the apprentices attending complete a stage of the Department of Education's syllabuses for the Junior, Intermediate and Senior Trade Certificate examinations in Bookbinding. An examination in each stage is set by the Department of Education at the conclusion of each course.
Trade Courses

**D192. LITHOGRAPHY AND PHOTO-LITHOGRAPHY**

*(Block-release Course)*

Consecutive courses of 12-13 weeks' duration for apprentices. During each course the apprentices attending complete a stage of the Department of Education's syllabus for the junior, Intermediate and Senior Trade Certificates Examination in Lithography and Photo-Lithography Work. An examination in each stage is set by the Department of Education at the conclusion of each course.

**D195. FILM ASSEMBLY AND PHOTOCOMPOSING THEORY**

This is a full-time course of 7 weeks duration for trainees from industry, at the end of which a certificate examination is taken. The course covers all aspects of Film Assembly both practical and theory, also complete theoretical breakdown of the Linofilm System of Photocomposition.

Fee £38.00 per annum.

**D195A. FILM ASSEMBLY AND PHOTO HEADLINER DISPLAY TECHNIQUES**

Course for nightworkers (compositors and senior apprentices). Duration of course is 13 weeks with attendance for 3 hours on one afternoon per week. Course content is the same as E195.

Fee £6.00 per annum.

**D196. ADVANCED LINOTYPE, INTERTYPE AND TELTYPESETTING**

An intensive post-apprenticeship course in practical training for craftsmen. Held on Monday, Tuesday, Wednesday and Thursday from 3.30 to 7.30 p.m.

Course commences on 6th January and terminates on 28th March, 1976.

Fee £16.00

School of Trades

Part-time day and evening classes for apprentices, craftsmen, and technicians actually engaged in the construction, furniture, vehicle building, and metal fabrication industries.

**DAY CLASSES**

Courses (D101-D153) are organised for apprentices in the industries referred to above mainly on a day release basis. The students are released from work, by their respective employers, to attend classes on one full day weekly. The various courses lead, over a period of four years, to the Senior Trade Tests (Theory & Practice) of the Department of Education and the relevant examinations of the City and Guilds of London Institute. Opportunities are available for students to proceed to further courses on completion of their apprenticeship.

Technician courses, involving attendance on one full day and two evenings weekly, are offered to suitably qualified persons engaged in the Construction Industry. Course D153A prepares students for the Plumbing Technicians' Certificate (Parts I & II) No. 631 of the City and Guilds of London.

**EVENING COURSES**

Evening Trade Courses, mainly at the more advanced levels, are organised on the basis of attendance of two evenings weekly. Provision is made for students to take the relevant trade tests. The School also provides a comprehensive course in Building Construction and associated subjects for those engaged in the Construction Industry. The course content is based on the syllabus of the Department of Education Technological Examinations in Building at Elementary, Intermediate and Advanced levels.
DAY COURSES

PART-TIME DAY RELEASE CLASSES FOR APPRENTICES
D102. Plastering.
D105. Painting and Decorating.
D111. Cabinetmaking.
D112. Upholstery.
D113. Woodfinishing.
D121. Carpentry and Joinery.
D122. Woodcutting Machinists' Work.
D143. Welding.
D149. Sheetmetal Work.
D150. Metal Fabrication.
D151. Plumbing/Heating Fitting (4th and 5th years only).

BLOCK RELEASE CLASSES FOR APPRENTICES
D145. Foundry Work.
D151. Plumbing/Heating Fitting (1st, 2nd and 3rd years only).

D153A. PLUMBING TECHNICIANS
Subjects of the course include Hot and Cold Water Systems,
Domestic Central Heating, Gas Supply Installations, Sanitation and
Drainage, Roofwork and Weathering, Plumbing Drawing
and Design, Mechanics of Fluids, Measurements and Specifications,
Site Procedures.

Entry Qualifications
(a) Senior Trade Certificate, Leaving Certificate or equivalent and
(b) Appropriate employment in the Construction Industry.

Tuition Fee £16.00 per annum.
CONSTRUCTION INDUSTRY (SHORT TERM COURSE)

A one year course to prepare students for the final examinations of the Royal Institution of Chartered Surveyors, the Institute of Quantity Surveyors and the Institute of Building.

Fee £11.00 per annum.

E3. TIMBER TECHNOLOGY

A three-year evening course to prepare students for the final examinations of the Institute of Wood Science.

Fee £11.00 per annum.
TECHNOLOGICAL AND TECHNICIAN COURSES

GRADUATE COURSES IN ENGINEERING

A 4-year course to prepare students for the examination of Professional Engineering bodies including:

1. Institution of Engineers of Ireland.
2. Council of Engineering Institutions (CEI).

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

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

Some of these subjects may also be offered by the College of Technology, Kevin Street, Dublin 8.

Part II. Depending on demand the following subjects may be offered:
- The Engineer in Society
- Mechanics and Properties of Materials
- Fluid Mechanics
- Structural Analysis
- Structural Design
- Thermodynamics
- Mathematics

Students are required to complete a laboratory programme as part of this stage.

Full details of the syllabus and examination regulations are contained in CEI Statement No. 10 available from the Council of Engineering Institutions, 2 Little Smith Street, London SW1. Price 50p.

Before entry applicants must meet the requirements of the appropriate Institution for Student Membership. Generally the requirements for the CEI are Advanced Level GCE in Mathematics and Physics and Ordinary Level GCE in English and two other subjects.

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

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

Fee £11.00 per annum.

STRUCTURAL DESIGN

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.

Fee £11.00 per annum.

GENERAL CERTIFICATE OF EDUCATION (GCE) COURSE

These are intended for students who have not reached the required standard of entry into Professional and Higher Level Technician Courses.

Ordinary Level

The following subjects may be offered:
- English
- Additional Pure Mathematics
- Physics
- Chemistry
- Technical Drawing

The entrance standard is Leaving Certificate or Department of Education Elementary Technological Certificate in Mechanical Engineering including Mathematics or equivalent.

Advanced Level

The following subjects may be offered:
- Pure Mathematics
- Physics

The entrance standard is Leaving Certificate Honours or GCE Ordinary level in the appropriate subjects.

Fee per annum:
- £6 for one subject.
- £11 for two or more subjects.
E42. TECHNOLOGICAL CERTIFICATE COURSE IN MECHANICAL ENGINEERING

This course is intended to prepare students for the Certificate examinations of the Department of Education in Mechanical Engineering as follows:

At the end of the Second year—Elementary Stage. Subjects: Maths, Mechanics, Heat, Drawing.
At the end of the Third year—Intermediate Stage. Subjects: Maths, Mechanics, Heat Engines, Drawing.
At the end of the Fourth year—Advanced Stage. Subjects: Maths, Mechanics, Heat Engines, Drawing.

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

Fee £11.00 per annum.

E43C. CIVIL ENGINEERING TECHNICIANS' CERTIFICATE COURSE

This is a four-year evening course to prepare students for the Certificate examinations of the Department of Education in Civil Engineering as follows:

First & Second Years

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

Tuition Fee £11.00 per annum payable on enrolment.

Examination Fee £5 per annum payable in January.

E43M. INSTRUMENTATION TECHNICIANS COURSE

This is a four-year evening course to prepare students employed as Instrument Technicians for Part I and Part II (275) City & Guilds Instrumentation Technicians Certificate. The entrance requirement is Leaving Certificate (including Maths and Physics) or Department of Education Elementary Technological Certificate or equivalent.

Subjects
First & Second Years
Workshop Processes and Drawing, Mathematics and Instrument Science.

Third & Fourth Years
Instrument Technology, Automatic Control, Electronic and Electrical Instrumentation.

Fee £11.00 per annum.

E43S. STRUCTURAL ENGINEERING DESIGN/DETAILING

This is a three-year course intended for those who are employed in structural drawing offices and are prepared for Parts I, II and III of the City & Guilds Structural Engineering Courses No. 630. The entrance requirement is Leaving Certificate or equivalent.

Subjects
First Year

Second Year
Structural Theory, Design and Detailing of Structural Elements, Construction Practice.

Fee £11.00 per annum.
**Technological and Technician Courses**

**E43V.**

**HEATING, VENTILATING AND AIRCONDITIONING**

This is a two-year evening course to prepare students for the Part I and Part II examinations of the City & Guilds of London Institute—Heating, Ventilating and Airconditioning Technicians (632).

It is a supplement to Course D43V but may also be attended by students unable to obtain day release.

Fee £11.00 per annum.

**E44.**

**MOTOR INDUSTRY MANAGEMENT COURSE**

Final Associate Membership Examinations (External) of the Institute of the Motor Industry.

Duration of Course

2 years evening (6 hours per week) for 30 weeks each year.

Subjects

- Motor Industry Law.
- Motor Industry Management.
- Motor Industry Accountancy.
- Motor Industry Administration and Organisation (Service Department, Parts Department or Vehicle Sales).

Entrance Qualifications

Department of Education Advanced Motor Car Engineering Technological Certificate or the City and Guilds of London Institute Motor Vehicle Technicians Certificate Parts I and II (390).

Fee £11.00 per annum.

**E47.**

**ENGINEERING WORKS MANAGERS’ COURSE**

This two-year evening course is intended for engineering technicians and trainee engineering works managers.

Entrance Requirements

Students should have reached the Leaving Certificate standard of general education and be suitably employed as managers or supervisors in industry.

Course of Study

First Year

Production Analysis I, Economic Analysis, Organisation Analysis, Statistics.

Second Year

Production Analysis II, Industrial Finance and Accounting, Psychology and Sociology, Industrial Relations.

Examination and Other Requirements

Students must pass a college examination at the end of each year. Those who successfully complete the course will be exempt from the Certificate Examination requirements of the Institution of Works Managers and hence can qualify for Graduate Membership of that body.

Students are required to apply for student membership of the Institution within one month of enrolling for the Course.

Fee £11.00 per annum plus an examination fee of approx. £15.00 per annum payable to the I.W.M.

**E45.**

**AERONAUTICAL ENGINEERING TECHNICIANS**

This course provides instruction for aircraft maintenance engineers who desire to take the Licence Examinations of the Department of Transport and Power.

Fee £11.00 per annum.

**E46.**

**MECHANICAL ENGINEERING TECHNICIAN COURSE**

This is a four-year evening course to prepare students for the Part I and Part II examinations of the City & Guilds Institute for Mechanical Engineering Technicians Course (255). Students should have a suitable craft background and hold the Elementary Technological Certificate in Mechanical Engineering, GCE, Leaving Certificate or equivalent.

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

Fee £11.00 per annum.
Tochnotogical and Technician Courses

E49. AUTOMOBILE ENGINEERING COURSE

Department of Education Technological Certificate (Motor Car Engineering).

Duration of Course 5 years evening (9 hours per week).

Subjects Motor Car Engineering, Engineering Science and Mathematics, Automobile Electricity, Engineering Laboratory, General Studies including English, Drawing and Sketching.

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

Fee £11.00 per annum.

E50. COMPUTER PROGRAMMING

This is a two-year course in which students are prepared for the City & Guilds Examination No. 746, (Basic Certificate Computer Programming.)

Entrance Qualifications Leaving Certificate with Commercial or Industrial experience.

Fee £11.00 per annum.

E56. PRIVATE AIRCRAFT PILOTS LICENCE

This course provides instruction in Meteorology, Navigation, Air Legislation and Aero Laboratory (Technical) for personnel wishing to take the Department of Transport and Power Private Pilots Licence and the Private Pilots Licence Instrument Rating.

Fee £11.00 per annum.

E58. REFRIGERATION ENGINEERING TECHNICIANS

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

Fee £11.00 per annum.

E60. DOMESTIC HEATING ENGINEERS' COURSE

This two-year evening course prepares students for the examination of the Institute of Domestic Heating Engineers. Successful candidates will be eligible for entry to the Institute as Associate Members. The course is available only to those who are employed at a suitable level in the heating industry.

Duration of Course Two evenings per week over two years.

Entrance Requirements (a) Senior Trade Certificate in Plumbing; or (b) City & Guilds Plumbing (No. 617); or (c) Heating and Ventilating Craft Certificate (No. 597 or 618). (d) Leaving Certificate or equivalent including Mathematics and Physics.

In appropriate cases applicants with approved practical experience may enrol at the discretion of the College.

Those who fail to satisfy the above requirement may be admitted to a Preliminary Course of one year's duration.

Students who complete the Preliminary Year and pass the College examination will be admitted to Design Course.

Fee £11.00 per annum.

E63. FIRE ENGINEERING COURSE

This is a one-year course which prepares students for the Graduateship examinations of the Institution of Fire Engineers.

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


Fee £11.00 per annum.
**MATERIALS HANDLING COURSE**
Graduate Membership of the Institute of Materials Handling.

**Duration of Course**
3 years evening of 6 hours per week.

**Subjects**
- Materials Handling Technology
- Materials Handling Equipment
- Materials Management
- Industrial Engineering

**Entrance Qualifications**
Department of Education Leaving Certificate or an equivalent qualification.

Fee £11.00 per annum.

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**TRADE COURSES**

The following evening courses are provided for Engineering Trade apprentices.
Students are prepared for appropriate examinations conducted by the Department of Education and the City & Guilds of London Institute.

**Course E141. Fitting & Turning.**
Course E143. Gas + Electric Welding.
Course E149. Metal Plate Work.
Course E151. Heating Engineering Fitters.

Fee £6.00 per annum.

**COMPRESSION IGNITION COURSE**

379 City & Guilds of London Institute Compression Ignition Engines Mechanics Certificate.

**Duration of Course**
2 years evening (6 hours per week).

**Subjects**
- Compression Ignition Engine Technology
- Compression Ignition Engine Maintenance
- Fuel Injection System Maintenance

**Entrance Qualifications**
Department of Education Senior Trade Certificate or equivalent.

Fee £11.00 per annum.

**FORK LIFT TRUCK MAINTENANCE COURSE**

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

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

**Entrance Qualifications**
Senior Group Trade Certificate of the Department of Education.

Fee £11.00 per annum.
MOTOR MECHANICS' WORK

Refresher course for Motor Mechanics

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

Subjects
Fault Diagnosis and the use of Diagnostic Service Equipment and Instruments on:
- Petrol Engines.
- Petrol Injection Units.
- Automatic Transmission Units.
- Front End and Power Steering.
- Brakes and Suspension Units.
- Automobile Electrical Units.

Entrance Qualifications
Senior Trade Certificate of the Department of Education.

Fee £11.00 per annum.

MECHANICAL ENGINEERING CRAFT PRACTICE

City & Guilds of London Mechanical Engineering Craft Practice (Course 155 Part 1).

Duration of Course
1 year—2 evenings per week (5 hours weekly).

Entry Qualifications
Junior Trade Certificate, Department of Education.

FITTING AND TURNING

Junior and Senior Trade Certificate of the Department of Education.

Duration of Course
4 years—evening (5 hours weekly).

Entry Qualifications
Confined to Mechanical Engineering Apprentices. 2nd & 4th Year classes only available.
E84A. COST ACCOUNTANCY FOR PRINTERS
A course requiring attendance for two evenings each week designed to prepare students for the examination of the British Printing Industries Federation.

Entrance Qualifications
Royal Society of Arts Certificate in Accounting and Office Procedure.

Fee £11-00 per annum.

E84B. COST ESTIMATING FOR PRINTERS
A course requiring attendance for two evenings each week designed to prepare students for the examination of the British Printing Industries Federation.

Entrance Qualifications

Fee £11-00 per annum.

E84C. ADVANCED LETTERPRESS OFFSET AND LITHOGRAPHY COST ESTIMATING FOR PRINTERS
A one-year course requiring attendance for two evenings each week. Students are prepared for the British Printing Industries Federation examinations in Advanced Letterpress Estimating and Advanced Offset Lithography Estimating examinations.

Entrance Qualifications
Only students who have successfully completed course E84A will be eligible for this course.

Fee £11-00 per annum.

E85. PAPER TECHNOLOGY AND MARKETING
A 2-year course for employees of Paper Mills and Paper Merchants' and Printers' employees engaged in the handling of paper transactions. Students are prepared for the examinations of the National Association of Paper Merchants and the City & Guilds of London Institute.

Entrance Qualifications
Leaving Certificate.

Fee £11-00 per annum.
E89B.

**PRINTING PRODUCTION MANAGEMENT (WORKS)**

**Duration of Course**
A two-year course requiring attendance at the College for three evenings (9 hours) weekly.

**Entrance Requirements**
City & Guilds of London Institute Certificate in Printing Production Management (Departmental), or Full Technological Certificate in Printing, or Certificate in Supervisory Studies.

**Subjects**
Financial Aspects of Management; personnel management; production management.

**Objectives of Course**
City & Guilds of London Institute Certificate in Printing Production Management (Works).

Fee £11.00 per annum.

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E181.

**ARTISTIC BOOK FINISHING**

This evening course is open to craftsmen and others who are interested in the design of fine bindings. The lectures and practical exercises in the application of design will cover the history of book design and designers, blind and gold toothing, the use of plastic colour and foils, the preparation and treatment in finishing and binding of the various leathers and binding materials. The selection of non-craftsmen will depend on a satisfactory result to interview.

Fee £6.00 per annum.

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E181A.

**BOOKCRAFT**

A course for students of the College of Art. The lectures and practical exercises will cover all aspects of book production and bookbinding techniques. Particular emphasis will be laid on design and its application to the make-up and finishing of the book. Use will be made of inlays and outlays, gold, foils, plastic colour, lino cuts and marbling. Subject to satisfactory attendance students will sit for the G.C.E. A level examinations in Bookbinding at the termination of the course.

Fee £6.00 per annum.

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E181B.

**BOOK PRODUCTION**

This is intended for those involved in the care of books particularly librarians, librarians under training, record office staff etc. It will cover mechanised book production, hand bookbinding and book repair. Particular emphasis will be laid on the advantages and/or disadvantages of the various materials and binding styles used and their alternatives which may be used in the interest of economy. The techniques and terminology of forwarding, finishing and decoration will be dealt with.

Fee £6.00 per annum.

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E182B.

**PRINT FINISHING**

This course covers techniques and materials used in the production of books, magazines and the wide range of miscellaneous work handled in the print finishing department. Lectures on the economies of efficient production, welfare, safety, hand and machine operations will be given. Stress will be laid on hand and machine operations, e.g., wire stitching, sewing and folding, machine and hand feeding, gathering, folding, gluing, mounting, etc. Duration of course, 12 weeks, one evening per week.

Fee £6.00 per annum.

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E183.

**LETTERPRESS MACHINE PRINTING, RETRAINING**

This is an evening course for post apprenticeship students with instruction in the latest letterpress techniques. The curriculum includes practical work on vertical presses, stop-cylinders, two revolution presses and sheet fed wrapround rotary printing, also the use of modern lining up, plate mounting and registering equipment.

Fee £6.00 per annum.

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E185.

**LINOTYPE, INTERTYPE, AND TELETEYPESETTING**

This course is for composing apprentices (4th and 5th year) and young journeymen who wish to become proficient in the operation of either keyboard. It covers daily maintenance routine and minor adjustments to the machines. It can be of one or two years' duration.

Fee £11.00 per annum.
E186. MONOTYPE CASTER OPERATION
A course for Monotype Caster Operators who are already employed as such in the printing industry. It covers all aspects of Monotype Casting including adjustments, alignment etc.
Fee £11.00 per annum.

E187. MONOTYPE KEYBOARD OPERATING
A course for composing apprentices (fourth and fifth year) and young journeymen who wish to become efficient operators.
The course covers table, tabular and bookwork setting and includes machine adjustments. It can be of one or two years' duration.
Fee £11.00 per annum.

E190. COMPOSING RETRAINING
This is an evening course for post apprenticeship students with specialist instruction in bookwork and advanced display, composing techniques, using modern make-up and registration equipment.
Fee £6.00 per annum.

E191. BOOKBINDING AND PRINT FINISHING, RETRAINING
This is an evening course for post apprenticeship students with instruction in the latest techniques, and covers the whole range of materials and technology used in print finishing processes.
Fee £6.00 per annum.

E192. LITHOGRAPHY AND PHOTO LITHOGRAPHY, RETRAINING
This is an evening course for post apprenticeship students with instruction in the latest techniques of lithographic plate making and press operation. Craftsmen having completed apprenticeship to other printing processes, undergo retraining in lithographic printing.
Fee £6.00 per annum.

E195. FILM ASSEMBLY AND PHOTO HEADLINER DISPLAY TECHNIQUES
This course is of 26 weeks duration with attendance of 3 hours on one night per week. It is open to compositors and senior composing apprentices.
The course gives both practical and theoretical coverage of all aspects of Film Assembly including correcting, proofing, display and bookwork make-up, colour separation and finalisation.
Fee £6.00 per annum.

E195A. IBM KEYBOARD CONVERSION AND PAPER MAKE-UP
Entrance Qualifications
Object
The course enables operators to convert to the IBM 'Golfball' System and covers all aspects of IBM Composer usage, with reference to both justified and unjustified setting. Training is also provided in Paper make-up methods and materials along with Photo Headliner setting. Duration is 13 weeks with attendance for 3 hours on one night per week.
Fee £6.00 per annum.

E196. PRIVATE PRESSWORK
This is a one-year course requiring attendance on two evenings per week. This course is intended specifically for qualified persons who can show evidence of their involvement in the private press movement. The course will include a study of Printing History/Type Design/Typography/Hand Composition/Paper/Hand illustration techniques/Inks/Handpress proofing and other relevant print techniques and materials.
Enterance Requirements
Leaving Certificate or equivalent.
Fee £11.00 per annum.

E197. GRAPHICS WORKSHOP
For art teachers, designers, creative artists and art students wishing to produce lithographs from stone and plate. Reproduction facilities are also available for linoleum and woodcut, wood engraving, etching and silk screen.
One evening (2½ hours) per week for 26 weeks.
Enterance Requirements
Leaving Certificate (including Art) or equivalent.
Fee £6.00 per annum.
School of Trades

EVENING COURSES

TECHNICIAN COURSES

CONSTRUCTION TECHNICIANS

The subjects of the course include: Building Construction, Geometry & Calculations, Plane & Solid Geometry, Builders' Quantities, Structural Engineering, Land Surveying & Setting Out. Course objectives include the Department of Education Technological Examinations in Building at Elementary, Intermediate, and Advanced Stages.

Entrance Qualifications

Employment in the Construction Industry.

Fee £11.00 per annum.

TRADE COURSES

Evening courses, mainly at advanced level, leading to the examinations conducted by the Department of Education, etc. are provided in:

E105. Painting and Decorating.
E111. Cabinetmaking and Design.
E112. Upholstery.
E113. Wood-finishing.
E121. Carpentry and Joinery.
E122. Woodcutting Machinist's Work.
E142. Welding.
E143A. Welding (Short Courses).
E144. Patternmaking.
E145. Foundrywork.
E148. Smith & Art Ironwork.
E149. Metal-plate work.
E151. Plumbing/Heating Fitting.

Entrance Qualifications

Employment in the relevant trade.

Fee £6.00 per annum.

Apprentices attending appropriate evening courses are not required to pay a tuition fee.

EXAMINING BODIES

The courses relate to the Examinations of the following bodies:

1. Department of Education

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

(b) Technician Certificate Examinations in Engineering

(c) Trade Certificate Examinations in:
   (i) Bricklaying and Masonry.
   (ii) Brass Finishing.
   (iii) Cabinetmaking.
   (iv) Carpentry and Joinery.
   (v) Compositors' Work.
   (vi) Letterpress Machine Work.
   (vii) Lithography & Photo Lithography.
   (viii) Bookbinding.
   (ix) Metalplate Work.
   (x) Motor Car Engineering.
   (xi) Painting and Decorating.
   (xii) Plasterers' Work.
   (xiii) Plumbing.
   (xiv) Fitters' Work.
   (xv) Turners' Work.
   (xvi) Metal Fabrication.
   (xvii) Sheet Metalwork.

2. Professional Institutions

(i) Construction Surveyors' Institute.
(ii) Council of the Engineering Institutions.
(iii) Institution of Engineers of Ireland.
(iv) Institution of Mechanical Engineers.
(v) Institution of Works Managers.
(vi) Institution of Structural Engineers.
(vii) The Institute of Building.
(viii) Institute of Quantity Surveyors.
(ix) Royal Institution of Chartered Surveyors.
(x) Royal Institute of the Architects of Ireland.

3. Other Bodies

(i) British Federation of Master Printers.
(ii) City & Guilds of London Institute.
(iii) Department of Transport & Power.
   (Licence in Aeronautical Engineering).
(iv) Institute of Clerks of Works in Ireland.
(v) Institute of the Motor Industry.
(vi) National Association of Paper Merchants.
(vii) Associated Examining Board (GCE).
(viii) London University (GCE).
SCHOOL OF ARCHITECTURE 
SURVEYING AND BUILDING 
Head of School: Kevin Fox BArch FRIAI ARHA

Department of Architecture and 
Town Planning 
Head of Department: John O'Keeffe FRIAI BArch 
Assistant Head: Liam Carlin MRAI ARBA 
Senior Lecturer: Anthony Johnson BArch MRAI ARBA

Staff Lecturers 
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Niall Brennan DipArch MRAI 
Neil Downes BArch MRAI 
Francis Ford MArch and UD DipArch MRAI 
Robert Fowler DipArch MRAI 
Sean Gaynor DipArch MRAI 
William Gilligan BArch MRAI 
Dermot Healy DipArch MRAI 
Fergus A Hogan MRAI DipArch 
Peter S Manning BArch MRAI 
Gerard Mitchell BArch MLA ARBA 
Eamonn O'Doherty BArch MRAI 
Louise G O'Dwyer DipArch 
Terence O'Neill BE MICE 
Sean Rocheley BArch MRAI ARBA 
Martin Ridge DipArch MRAI 
Duncan Steward BArch MRAI

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Angel Bruton BArch MRAI ARBA 
J Cripwell BSc 
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C P Ferguson MRAI ARBA 
A Fortune 
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Alice Hanratty NCA 
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Pascal Wynne IIAS 
Stewart Young DipArch ARBA

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Eoin McVeigh DipArch ARBA MRAI 
J T Sheard BA DipTP ARBA MRTPI

Department of Surveying + Building Technology 
Head of Department: Eanna de Burda FRICS 
Assistant Head: Kevin Murnane ARBA MIEI 
Assistant Head (Urban Economics): Laurence Liddle 
MFRICS 
Senior Lecturers: Joseph P Davis BComm MSc(Econ) CertEd DipStats 
Joseph P O'Byrne FCSI

Staff Lecturers 
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Thomas Byrne FTC (C & G) 
Peter Collins MA HDiPEd 
Donal Cooper AMCSI HTC(Hons) 
Seamus Cunningham MI(Hons) ACSI 
John Dixon BSc FRICS 
Brendan Dunne FCSI 
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John Keegan MHIA DipHI (Seconded from Dept, of Health) 
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Fergus McCarthy Barrister-at-Law 
Brian Meehan BScSc DipTP MSc 
Michael Moore MHIA DipHI (Seconded from Dept. of Health) 
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William D O'Sullivan AIQS 
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Rory Walsh ARICS

Academic Staff

SCHOOL OF ENGINEERING 
Head of School: Vacant

Department of Engineering Technology 
Head of Department: Michael O'Donnell BE MEngSc BE BComm CEng MIProdE MIEI 
Senior Lecturers: James Daly CEng MIEI Matthew Russell CEng MIProdE MInstBE

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Patrick S Benson MIHE 
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John A Butler BEng AMInstF CEng 
MIMechE 
Daniel Byrne CEng AMInstF MIHE MIEI 
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Kenneth Eng MA AIM MInstW MIEI 
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Andrew O'Hanlon MlEd

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Manual Instructors Certificate (Honours) AMBIM
Assistant Head: Richard Dowling MIMI

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SCHOOL OF TRADES
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Head of Department: Michael C Murray
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Department of Building Trades ‘B’
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FCSI FTC(Hons)

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Patrick Kelly Final C & G
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James S Stewart Final C & G
James Wall

Department of Metal Fabrication
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FTC (C & G)
Assistant Head: Brendan Rooney, Final C & G
AWeldl

Whole-time Staff
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SCHOOL OF PRINTING & BOOK PRODUCTION
Head of School: Vacant
Assistant Heads of Department:
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Joseph Reddin Lic in Printing (C & G) AMIPtgM

Whole-time Staff
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| Incorporated Association of Architects and Surveyors | S J Coggin FIAS FIarb  
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| Joinery and Woodcutting Machinists' Work | J G McCormack Master Builders' Association  
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|                                      | P F McGrath Irish National Union of Woodworkers  
|                                      | G L Wall Irish Society of Woodcutting Machinists  
|                                      | J R Hunter J R Hunter & Co Ltd  
|                                      | W Robinson National Union of Furniture Trade Operatives  
|                                      | 52 Peter's Hill Belfast 13 Northern Ireland  
|                                      | P Marrey Furniture Manufacturer 20a St Joseph's Parade Dublin 7  
| Plastering | Gerard Doyle Operative Plasterers' Trade Society  
|                                      | T Byrne M Creedon Ltd 3 Ardee Road Dublin 6  
| Plumbing | Association of Master Plumbers Heating & Ventilating Engineers of Ireland  
|                                      | P J Clonan  
|                                      | J B Doherty  
|                                      | P J Duffy  
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|                                      | J N Traynor  
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|                                      | A Mullins  

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H Samway National Union of Vehicle Builders
G J Roberts Coach and Motor Body Builder 3A Lower Grangegorman Dublin 7
M F Gavigan

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Structural Steelwork
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J D Pearson Smith & Pearson Ltd
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National Engineering & Electrical Trade Union
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Printing & Book Production
C W Warren Irish Printing Federation
R R Yates-Hale Irish Printing Federation
J Roche Irish Printing Federation
W D Britton Irish Master Printers' Association
M S O Loingsigh Irish Master Printers' Association

O A Curran Irish Graphical Society
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E Dignam Stereotypers' Society
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