College of Technology, Bolton Street Prospectus 1972-73

City of Dublin Vocational Education Committee

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1972-73 Prospectus

COLLEGE OF TECHNOLOGY

Bolton Street
Dublin 1

City of Dublin
Vocational Education Committee

School of Architecture, Surveying + Building
School of Engineering
School of Printing + Book Production
School of Trades

Offices
College of Technology Bolton Street Dublin 1 Telephone 49913 (6 lines)
School of Trades Yarnhall Street Dublin 1 Telephone 49873/4
Annex 62 Eccles Street Dublin 7 Telephone 303169
Annex 18 Lower Leeson Street Dublin 2 Telephone 61640
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## COLLEGE COUNCIL

**Chairman**  
Mr Patrick Donegan 121 Shanard Road Dublin 9

Dr John D Barry Deputy Principal

Mr. Anthony Bennett SRC Representative

Mr Thomas Bridgeman "Treetops" Swords Road Dublin 9

Mr J B Colgan 50 Cedar Mount Road Mount Merrion Co Dublin

Mr A Harkin 52 Farney Park Dublin 4

Mr Sean MacGuire 3 Kincora Grove Dublin 3

Mr D F O'Dwyer Principal

Mr S O'Hanlon PC 1 Turlough Gardens Dublin 3

Rt Rev Mgr J O'Regan STL PP Sandymount Dublin 4

Mr Jeremiah P Sheehan BE MSc Chief Executive Officer City of Dublin Vocational Education Committee

Mr Michael Scott FRIA 19 Merrion Square Dublin 2

Mr Michael Swords 46 Hazel Avenue Stillorgan Co Dublin
DEPARTMENTS

School of Architecture, Surveying & Building

Department of Architecture & Town Planning
Head: John J O’Keeffe MRIAI BArch
Assistant Head: Liam Carlin MRIAI ARIBA

Department of Surveying & Building Technology
Head: Vacant
Assistant Head: Eanna de Burca FRICS
Assistant Head: Laurence Liddle MA FRICS
(Urban Economics)

School of Engineering

Department of Engineering Technology
Head: Denis Fitzgibbon BE MSc CEng MIMechE
Assistant Head: Michael O’Donnell MEconSc BE BComm CEng MIProdE MIEI

Department of Science & Mathematics
Head: James A Nunan BSc HDipEd
Assistant Head: Gerard Lawlor MSC

Department of Engineering Trades
Head: Robert L Eustace BSc
Assistant Head: Joseph Shiels

Department of Aeronautical Engineering
Head: Thomas McInerney AMSLAE ACD & X Licences
Assistant Head: Michael Forde A & C Licences

Department of Automobile Engineering
Head: Sean Mac Guirc MIMI Manual Instructor’s Certificate (Hons)
Assistant Head: Richard Dowling MIMI

Department of Metal Fabrication
Head: John G Bolton MWeldl FTC (C & G)
Assistant Head: Brendan Rooney AWeldl Final C & G
School of Printing & Book Production

Head of Dept: Philip O'Reilly MIOP
Asst. Heads of Dept:
Prionsias O hEifearnain BA HDipEd FTC (C&G)
Joseph Reddin Lic in Printing (C&G) AMIPtgM

School of Trades

Department of Building Trades 'A' (Bricklaying & Masonry, Furniture, Plastering, Painting and Decorating, Vehicle Building, Vehicle Trimming and Vehicle Painting)
Head: Michael C Murray Hons C&G
Assistant Head: Vacant

Department of Building Trades 'B' (Carpentry and Joinery and Wood Machining)
Head: Thomas Bridgeman ABICC FTC (C & G)
Assistant Head: Joseph P O'Byrne FTC (C & G) LIoB.

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

GENERAL INFORMATION & 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.

Whole-time + Students are admitted at the commencement of the session in September. Applications for admission to wholetime courses should be submitted not later than 31st August on the form obtainable from the Secretary. Candidates awaiting results of examinations may make provisional application. Documentary evidence of qualifications should accompany all applications.

Part-time Courses

General Information Day Classes will normally be held from 9 am to 12.30 pm and 2 pm to 5 pm each weekday except Saturday unless special arrangements are made in specific cases. Evening Classes will normally be held from 7 pm to 10 pm except where shown otherwise.

Office Hours: 9 am to 12.30 pm and 2 pm to 5 pm 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 teaching staff will not be available for interviews except by prior appointment.

Attendance The College Authorities may exclude any student from the College without refund of fees for irregular or unpunctual attendance or misconduct, or for any other reason which in the opinion of the College justifies exclusion. Three successive absences in any one class subject may lead to suspension from the complete course unless the Principal is informed in writing of the reason.

Changes in Class 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 urgent reason a teacher cannot attend or arrange for a deputy, classes may be cancelled without notice.

Sessional Examinations Examinations are held at the end of Session, no student shall be admitted to the Examinations who has not made at least three-fourths of the possible attendance except in special circumstances and at the discretion of the Head of Department. Promotion to a Higher Stage of Instruction in any subject is contingent on reaching the required standard in Sessional Examination in the Lower grade.
Examinations

Closing dates and fees for examinations conducted by the College, Department of Education, the City and Guilds of London Institute and other bodies are displayed on the College Notice Board as they occur. An Examination fee of £5·00 is payable in respect of College sessional examinations. Closing date for receipt of College Examination fees is 31st January 1973. In exceptional circumstances and at the discretion of the College Examination Board a candidate may be allowed to enter for a College Examination after the closing date, subject to the additional payment of a late fee of £5·00. A candidate may be permitted to sit for one College supplementary examination without payment of a further fee.

Fees

Fees are payable on enrolment and no student will be permitted to attend any class until the proper fees have been paid. Guarantees may be accepted from local authorities, education establishments or employers. Fees will not be refunded except where a course does not form or where a student, with the consent of the Head of his department, withdraws his application before the commencement of the course. The sessional fees are shown under the headings for the various courses.

Higher Education Grants

Local Authorities are empowered to make 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 are of equivalent level to University degree courses and qualify for the grant: Architecture, Engineering, Construction Economics, Environmental Economics and Geo-Surveying. Application for these grants should be addressed to the Secretary of the Local Authority in whose area the student's parents normally reside.

Foreign Students

Applications from Foreign Students 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.

Library

The College Library has an expanding stock of text books, periodicals and reference books appropriate to the work of the College. Staff and students of the College have access to its facilities and where necessary it may also be possible to obtain books and materials on loan from other libraries. The Library is normally open from 10 a.m. to 9.30 p.m. Monday to Friday and Saturday opening is provided over part of the session.

Refectory

The students' Refectory is open throughout the session for lunches, teas and morning and afternoon snacks.

Discipline

A member of the academic staff issuing a directive to any student misconducting himself on the College premises is authorised to enforce disciplinary measures, and the Principal may immediately suspend the student(s) pending a hearing of the charges by the College Council. The full co-operation of each student is invited in order to maintain the dignity and discipline of the College.

Damage to Equipment and Premises

The cost of the repair or replacement of College property damaged by a student shall be paid on demand to the College Authority by the student responsible for such damage.

Homework

Students are required to submit regularly such homework as may be prescribed by members of the academic staff and this will be taken into account in the assessment at the end of the Session.

Laboratory Record

An Experimental Laboratory notebook must be maintained by each student of a Laboratory Class: an assessment will be made at the end of Session of each student's progress in laboratory techniques and experimental ability which will count in the sessional examination in that subject.

Loss of, or Damage to Property

Whilst every reasonable precaution is taken, the College cannot accept responsibility for damage to or loss of students' property.

Trade Courses

These classes 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' Associations and/or the official Trades Unions of the trade concerned.

Change of Classes

No change of classes or courses may be made without the consent of the Head of Department.

Change of Address

Change of address or place of employment should be reported to the Office immediately.
## GUIDE TO COURSES

### Technical Courses (Day)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>D1</td>
<td>Architecture Diploma Course. Whole-time.</td>
</tr>
<tr>
<td>D3B</td>
<td>Diploma Course in Environmental Economics. Whole-time.</td>
</tr>
<tr>
<td>D4B</td>
<td>Diploma Course in Construction Economics. Whole-time.</td>
</tr>
<tr>
<td>D5</td>
<td>Diploma Course in Geo. Surveying. Whole-time.</td>
</tr>
<tr>
<td>D7</td>
<td>Health Inspectors' Diploma Course, Sandwich.</td>
</tr>
<tr>
<td>D8</td>
<td>Architectural Technicians. Whole-time.</td>
</tr>
</tbody>
</table>

### Engineering Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>D39</td>
<td>Diploma Course in Transportation Technology. Whole-time.</td>
</tr>
<tr>
<td>D40</td>
<td>Preliminary Engineering Course. Whole-time.</td>
</tr>
<tr>
<td>D42</td>
<td>Diploma Course in Mechanical &amp; Production Engineering. Whole-time.</td>
</tr>
<tr>
<td>D43C</td>
<td>Civil Engineering Technicians' Course, Whole-time/Part-time.</td>
</tr>
<tr>
<td>D43M</td>
<td>Mechanical Engineering Technicians' Course, Whole-time/Part-time.</td>
</tr>
<tr>
<td>D43V</td>
<td>Heating, Ventilating &amp; Airconditioning Technicians' Course. Whole-time/Part-time.</td>
</tr>
<tr>
<td>D44</td>
<td>Diploma in Motor Industry Management.</td>
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<tr>
<td>D45</td>
<td>Aircraft Technicians' Course. Sandwich.</td>
</tr>
<tr>
<td>D46M</td>
<td>Mechanical Engineering Higher Technicians' Course, Sandwich.</td>
</tr>
<tr>
<td>D46H</td>
<td>Diploma Course in Heating and Ventilating Engineering. Sandwich.</td>
</tr>
<tr>
<td>D46C</td>
<td>Civil Engineering Higher Technicians' Course.</td>
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<td>D47A</td>
<td>Mechanical Engineering Technicians' Course. Part-time.</td>
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<tr>
<td>D47B</td>
<td>Mechanical Engineering Technicians' Course. Block release.</td>
</tr>
<tr>
<td>D127</td>
<td>Motor Vehicle Technicians, Part-time.</td>
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<tr>
<td>D135</td>
<td>Auto Engineering Technicians, Part-time.</td>
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### Printing Courses

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<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>D82</td>
<td>Training for Administrative Staff, Part-time.</td>
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<tr>
<td>D83</td>
<td>Higher Printing Education.</td>
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### School of Trades Courses

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<th>Course Code</th>
<th>Course Title</th>
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<td>D4C or D4D</td>
<td>Construction Technicians, Part-time.</td>
</tr>
<tr>
<td>D153/A</td>
<td>Plumbing Technicians, Part-time.</td>
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### 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.
Guide to Courses

Trade Courses (Day)

Engineering
D/126. Automobile Engineering, Block release.
D/129. Automobile Engineering, Part-time.
D/137. Sheet Metal.

Printing
D/147. Film Make-up. Block release.

School of Trades
D/149. Plastering. Part-time.
D/150. Painting and Decorating. Part-time.

Trade Courses (Evening)

Engineering
E/137. Warehouse Supervisors' Course.

Printing
E/195. Film Make-up. Part-time.

School of Trades
E/143A. Welding. Short Courses.
School of Architecture
Surveying + Building

DAY COURSES
School of Architecture
Surveying + 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 while 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

D/1A. DIPLOMA COURSE IN ARCHITECTURE

This is a five-year whole-time course leading to the Diploma in Architecture which gives exemption from parts A & B of the Final Examinations of the Royal Institute of the Architects of Ireland. Graduates from the course become eligible for membership of the RIAI 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.

Entrance Standard

The preliminary educational qualifications required for enrolment are as follows:

(a) The Secondary Schools Leaving Certificate with a minimum of two subjects at honours 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.

Subjects of Instruction are

First Year

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

Second Year

Studio Work; Theory of Architecture; History of Architecture; Building Construction and Materials; Building Services I; Theory of Structures; Craftwork.

Third Year

Studio Work; Theory of Architecture; Building Construction; Building Practice; Building Services II; Building Materials; Structural Engineering; Craftwork; Surveying and Levelling.

Fourth Year

Studio Work; Theory of Architecture; Building Construction; Structural Engineering; Professional Practice; Interior Design (including furniture design); Town Planning Theory (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.

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.

D/8. 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 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 £33.00 per annum.
D/3B. DIPLOMA COURSE IN ENVIRONMENTAL ECONOMICS

A course leading to a Diploma in either Estate Management or Town Planning. The course is of four years' duration and designed to prepare students for Corporate Membership of the Royal Institution of Chartered Surveyors, the Chartered Auctioneers' and Estate Agents' Institute and the Irish Auctioneers' and Estate Agents' Association.

Subjects

First Year
Mathematics; Science; Principles of Accounts; Economics; Construction Technology I; History of Property Rights and Introduction to Valuations; Communications.

Second Year
Principles of Valuation; Town and Country Planning; Land Economics; Local Government Social Services; Building Construction and Services; Principles of Law; Land Surveying; Computer Applications.

Third Year
Applied Valuations; Urban Economics; Maintenance of Buildings; Law; Town and Country Planning.

Fourth Year
(Estate Management)
Land Taxation; Applied Valuation II; Urban Economics II; Computer Applications; Arbitrations and Tribunals I. (Town Planning)
Applied Town and Country Planning II; Applied Valuation II; Urban Economics II; Computer Applications; Arbitration and Tribunals I.

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

Entry Qualifications
(a) The Secondary Schools Leaving Certificate 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.

Fee £53.00 per annum.

D/4B. DIPLOMA COURSE IN CONSTRUCTION ECONOMICS

A course leading to a Diploma in either Building Management or Quantity Surveying. The course is of four years' duration and designed to prepare students for Corporate Membership of the Royal Institution of Chartered Surveyors, The Institute of Building, The Building Surveyors' Institute, The Institute of Quantity Surveyors and the Incorporated Association of Architects and Surveyors.

Subjects

First Year
Mathematics; Science; Principles of Accounts; Economics; Construction Technology; History of Property Rights and Introduction to Valuations; Communications.

Second Year
Construction Technology II; Law; Applied Economics; Land Surveying; Cost Accountancy; Quantities; Applied Mathematics and Statistics; Computer Applications.

Third Year
Construction Technology III; Quantities; Law; Management & Work Study; Principles of Structural Design.

Fourth Year
(Quantity Surveying)
Quantities and Economic Analysis; Financial Administration; Site and Production Management; Computer Applications; Arbitration and Building Contract. (Building Management)
Financial Management and Commercial Practice; Personnel Management and Human Relations; Site and Production Management; Computer Applications; Arbitration and Building Contracts.

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

Entry Qualifications
(a) The Secondary Schools Leaving Certificate with a minimum of 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.

Fee £53.00 per annum.
D/5. DIPLOMA COURSE IN GEO-SURVEYING

This is a four year course leading to a Diploma in Geo-Surveying and designed to prepare students for Associateship of the Land and/or Mineral Sections of the Royal Institution of Chartered Surveyors. Projects of a practical nature will be completed in the 1st, 2nd and 3rd years. A dissertation will be submitted in the Final year. A pre-professional year when necessary, is available.

First Year
Mathematics; Physics; Elementary Surveying and Levelling; Astronomy; Principles of Law; Map and Air Photo Interpretation; Engineering Drawing; Economics and Statistics; Geomorphology.

Second Year
Mathematics; Engineering and Mining Surveying; Topographical Surveying; Law of Property; Geology; Astronomy.

Third Year
Trigonometrical, Geodetic and Topographical Surveying; Mining Law; Principles of Valuations; Geology Numerical Analysis; Computer Applications; Photolithography.

Fourth Year
Trigonometrical, Geodetic and Topographical Surveying; Cadastre; Computer Applications; Administrative Law; Hydrographic Surveying.

Minerals Surveying
Mining Surveying; Ground Movement in Mining Areas; Mineral Valuations; Administrative Law; Computer Applications; Economic Geology and Mineral Prospecting; Principles of Mining,

Practical Experience
Students are required to gain field experience during the summer vacations.

Entry Qualifications
(a) The Secondary Schools Leaving Certificate with Mathematics and Science (preferably Physics) 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.

Fee £53·00 per annum.

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D/7. 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.

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; 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

A course leading to a Certificate in Building Technology.
The course is of three years' duration and designed to prepare
students for Licentiateship of the Institute of Building and the Building
Surveyors' Institute and Technician Membership of the
Incorporated Association of Architects and Surveyors.
The course is recognised by the City & Guilds of London Institute
for purposes of the award of their Higher
Construction Technicians' Diploma. It is also recognised by the Society
of Surveying Technicians for membership after satisfactory
completion of two years experience in a professional office.

Subjects

First Year
Applied Mathematics; Construction Science; Principles of Accounts;
Structure of the Industry; Construction Technology; Measurement & Costing; Elementary Surveying & Setting Out.

Second Year
Construction Technology and Services I; Structures and Concrete
Technology; Mechanical Plant and Equipment; Applied Mechanics (Hydraulics of Soils) I; Site Surveying and Setting Out;
Specifications and Quantities; Work Study I; Site Organisation and Administration I; Communications in Industry I.

Third Year
Construction Technology and Services II; Structures and Concrete Technology II; Mechanical Plant and Equipment II;
Applied Mechanics (Hydraulics of Soils) II; Estimating and Costing; Work Study II; Measurement of Site Work; Site Organisation and Administration II; Communications in Industry II.

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

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 £43 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.

School of Engineering

The School of Engineering encompasses six departments, Engineering
Technology, Automobile Engineering, Aeronautical Engineering,
Mathematics and Science, Metal Fabrication and Engineering Trades. The
academic work engaged upon in these departments ranges from
craft to full professional level and further to post-graduate studies.

It is the School policy to provide an integrated system, horizontally in the
range of technologies and vertically in their levels. In this
way students may find courses suitable to their needs with opportunities
for transfer or promotion to other disciplines.

The School maintains close links with industry through employers, vacation
training, project work and research activities. The links with professional
institutions are strongly maintained and there is a conscious aware-
ness of the needs and trends in education and training.

A number of professional engineers graduate annually and their thorough
preparation enables them to make a useful contribution to Irish Industry.
Many continue to post-graduate work at home or abroad in Britain,
Canada and the United States.

The College staff is aware of the growing need for technicians in
Ireland and provision is constantly being made to meet the deficiency.

The Evening School continues to form an important part of the School
of Engineering activities. Evening courses are kept under review and
every attempt is made to assist technical personnel to keep abreast
of technological developments.
TECHNOLOGICAL AND TECHNICIAN COURSES

DIPLOMA COURSES IN MECHANICAL, PRODUCTION AND STRUCTURAL ENGINEERING

Common First Year
The courses have a common first year which consists of eight months' academic work commencing in mid-September, followed by three months' practical training in industry. Its prime purpose is to give students a good background in basic Science and Mathematics and to prepare them for entry to the 2nd year of the course in Mechanical, Structural or Production Engineering.

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

Course of Study
The subjects of the course are:

Membership of Professional Institutions
Students are strongly urged to apply to the appropriate Engineering Institution for Student Membership during their first year.

(1) MECHANICAL ENGINEERING
This is a sandwich course consisting of eight months' academic work each year commencing in mid-September, and three months' practical training in industry. The following schemes are in operation.
(a) College-Based Scheme. Suitable students are enrolled by the College, which then directs their academic studies and assists in arranging vacation training each summer.
(b) Industry-Based Scheme. Suitable students, whose employers are prepared to sponsor them for the duration of the course, may be admitted. Employers make arrangements with the student regarding the payment of fees, allowances and expenses, etc.

Course of Study
The subjects are as follows:
Second Year
Mathematics, Principles of Electricity, Applied Mechanics, Thermodynamics, Fluids, Engineering Drawing, Physics, Production Processes, General Studies, Workshop and Laboratory Work.

Third Year

Final Year
In the Final Year, students are required to carry out an individual design or research project and to submit a thesis on the work undertaken.
A PDP-8/1 Digital Computer is available and students are given a formal training in its use.

Examinations and Other Requirements
Students will not be permitted to advance to the next year of the course unless they
(a) have satisfied the examination requirements;
(b) have a suitable attendance record in each subject they are required to attend;
(c) have presented Laboratory and Year's Work to meet the standard required,
(d) have completed the vacation training programme for the year and submitted a satisfactory report thereon.

Award of Diploma in Mechanical Engineering (Dip.Eng.)
At the completion of the course students who have been successful in the Final examination and who have satisfactorily completed their project will be eligible for the award of the Diploma in Engineering. Students holding this Diploma meet the academic requirements for membership of the Institution of Engineers of Ireland and the Institute of Mechanical Engineers. It is also widely accepted by Universities in Ireland and abroad as meeting their academic requirements for entry into post-graduate courses.

Fee £53:00 per annum.
(2) PRODUCTION ENGINEERING

This course consists of eight months’ academic work each year commencing in mid-September, and three months’ practical training in industry. The entrance requirements and general scheme are as in the Mechanical Engineering Diploma Course up to Final Year.

Course of Study

Final Year

Each student is also required to undertake an individual design or research project and to submit a thesis on the work undertaken.

Award of Diploma in Production Engineering (Dip.Eng.)

At the completion of the course students who have been successful in the Final Examination and who have satisfactorily completed their project will be eligible for the award of the Diploma in Structural Engineering. 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.

Fee £53.00 per annum.

(3) STRUCTURAL ENGINEERING

This course consists of eight months’ academic work each year commencing in mid-September and three months’ practical experience in a design office or on site. The general scheme and entrance requirements are as in the Mechanical Engineering Diploma Course.

Course of Study

The Course subjects are as follows:

Second Year

Third Year

Fourth Year
Mathematics, Specifications and Quantities, Theory of Structures, Design of Structures, Road and Municipal Engineering, Administration and Computer Applications and a Project.

Award of Diploma in Structural Engineering (Dip.Eng.)

At the completion of the course, students who have been successful in the Final Examination and who have satisfactorily completed their project will be eligible for the award of the Diploma in Structural Engineering. 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.

Fee £53.00 per annum.

D/39

DIPLOMA COURSE IN TRANSPORTATION TECHNOLOGY

This is a four-year sandwich course consisting of eight months’ academic work each year commencing in mid-September, and three months’ practical training in industry.

Entrance Requirements to the Course

Leaving Certificate with a pass at Higher Level in both Mathematics and English and a pass at Ordinary Level in Physics or an equivalent qualification.

Course of Studies

The subjects are as follows:

First Year

Second Year

Third Year

Final Year
Transportation Technology, Tero-technology, Traffic Engineering, Management Science, Project.
Examinations and other Requirements

Students will not be permitted to advance to a subsequent year of Course unless the following requirements are fulfilled:

(a) To have satisfied the examination requirements;
(b) To have a satisfactory attendance record in each subject they are required to attend;
(c) To have presented Laboratory and Year’s Work Records to the satisfaction of the examiners;
(d) To have completed the vacation training programme for the year and submitted a satisfactory report thereon.

Award of Diploma in Transportation Technology

On completion of the course students who are successful in the Final Examinations and who have satisfactorily completed their project will be eligible for the award of the Diploma in Transportation Technology.

Fee £33.00 per annum.

Examinations and other Requirements

(a) To have satisfied the examination requirements;
(b) To have a satisfactory attendance record in each subject they are required to attend;
(c) To have presented Laboratory and Year’s Work Records to the satisfaction of the examiners;
(d) To have completed the vacation training programme for the year and submitted a satisfactory report thereon.

D/40 PRELIMINARY ENGINEERING COURSE

This is a one-year whole-time course commencing each year in mid-September. Its purpose is to prepare suitable students for entry to the Professional Course in Engineering 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, General Studies.

Examinations and Other Requirements

Students are required to

(a) take the College examinations at the end of the session and such other examinations as required;
(b) have a satisfactory attendance record in all subjects;
(c) present laboratory notebooks and year’s work to the satisfaction of the College authorities.

Fee £33.00 per annum.

D/44 DIPLOMA IN MOTOR INDUSTRY MANAGEMENT

This three-year wholetime course prepares students for entry into the many and varied responsible positions in the Motor Industry.

Classes begin in mid-September and end in May. Weekly attendance at lectures and practical work is approximately 30 hours.

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


Examinations and other Requirements

Progress to successive years of the course will be on the basis of the student’s work during the session and success in the College sessional examinations. Permission to take the College sessional examinations will only be granted to students with at least 75% attendance.

An essential requirement of the course is that students spend 2-3 months of each Summer Vacation in suitable employment in the Motor Industry gaining appropriate experience. Where students are unable to arrange Summer employment the Graduate Society of the Institute of the Motor Industry and the College Authorities will assist in placing them for this purpose.

Fee £38.00 per annum.
**D/43C**

**CIVIL ENGINEERING TECHNICIANS’ CERTIFICATE COURSE**

This is a one-year whole-time course followed by two years of part-time studies, to prepare students as Civil or Structural Engineering Technicians or Draughtsmen. At the end of the first year successful students take up suitable employment and in the subsequent two years they attend the College on one day and two evenings per week.

They may also transfer to Course D/46C which enables them to continue their studies on a whole-time basis.

**Entrance Requirements**

Leaving Certificate or equivalent, with Mathematics, and preferably Drawing and a Science subject.

**Course of Study**

**First Year**


**Second & Third Years**

Seven subjects from the following:

- Structural Engineering
- Concrete Technology
- Hydraulic Engineering
- Soil Mechanics and Geology
- Specifications and Quantities
- Construction Equipment
- Construction Technology
- Surveying
- Engineering Administration

**Examinations and Other Requirements**

At the end of each year students take a College Examination.

Fee 1st year £33.00 per annum; 2nd and 3rd years £16.00 per annum.

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**D/43M.**

**MECHANICAL ENGINEERING TECHNICIAN CERTIFICATE COURSE**

This is a one-year whole-time course followed by two years of part-time studies which prepares students for careers as technicians in different specialisations in Mechanical Engineering. At the end of the first year successful students take up employment and in the subsequent two years they attend the College on one day and two evenings per week. They may also transfer to Course D/46M which enables them to continue their studies on a whole-time basis.

**Entrance Requirements**

Leaving Certificate or equivalent, with Mathematics, and preferably Drawing and a Science subject.

**Course of Study**

**First Year**


**Second and Third Years**

Subjects appropriate to the field of specialisation.

**Examination Requirements**

At the end of each year

Students take a College Examination.

Fee 1st year £33.00 per annum; 2nd and 3rd years £16.00 per annum.

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**D/46H**

**DIPLOMA COURSE IN HEATING AND VENTILATING ENGINEERING**

This is a two-year sandwich course which prepares students for the College Examination leading to the Associateship of the Institution of Heating and Ventilating Engineers. It extends over 6 months of each year.

**Entrance Requirements**

Students must have passed the Department of Education Intermediate Stage Technological Certificate in Mechanical Engineering and Electrical Engineering or have satisfactorily completed the first year of Course D/43M or D/46M.

They are also required to have had appropriate experience in a Heating and Ventilating Design Office.
Technological and Technician Courses

D/43V. 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).

First Year

Second Year
Building services engineering and design practice as related to Heating, Ventilation and Air Conditioning.

Fee for the course £38.00 per annum.

Entrance Requirements
(a) Satisfactory completion of the first year of Course D43M
(b) Dept. of Education Intermediate Technological Certificate
(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

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.

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 £33.00 per annum.
D/46C. CIVIL ENGINEERING TECHNICIANS' CERTIFICATE AND DIPLOMA COURSE

This sandwich course prepares students for technician qualifications in Civil or Structural Engineering. 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 design offices, construction sites, etc.

Entrance Requirements
First Year
Leaving Certificate or equivalent with good passes in Mathematics, Physics, English and two other subjects.

Third Year
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 Diploma Course.

Course of Study
First Year, same as course D/43C.

Second Year
Theory of Structure, Mathematics, Geology and Soil Mechanics, Surveying, Concrete Technology, Civil Engineering Construction, Hydraulics, Specifications and Quantities, Administration, Laboratory Work and General Studies.

Third Year
Theory of Structures, Structural Design, Municipal and Road Engineering, Mathematics and Computer Application, Construction Management. 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 must take a College examination at the end of each session.
(b) They are required to submit a report on their Summer vacation training each year and also a report on their final year project.
(c) They must present laboratory notebooks and year's work to the satisfaction of the College Authorities.

D/46M. MECHANICAL ENGINEERING TECHNICIANS' CERTIFICATE AND DIPLOMA COURSE

This sandwich course prepares students for a higher level technician qualification in Mechanical Engineering. The students attend the College for eight months each year commencing in October and they spend the summer period getting practical training in industry.

Entrance Requirements
Leaving Certificate or equivalent with good passes in Mathematics, Physics, English and two other subjects.

Course of Study
First Year

Second Year
Mathematics, Mechanics, Energy Utilisation, Production Technology, Drawing and Design, Experimental Method and Instrumentation, Engineering Laboratory and General Studies.

Third Year
Mathematics and Data Processing, Mechanics, Energy Utilisation, Production Technology, Process Control, Engineering Design, Administration and a Project.

Examinations and Other Requirements
(a) Students must complete a satisfactory course of studies and take a College examination at the end of each session.
(b) They are required to submit a report on their industrial training each year.
(c) They must present laboratory notebooks and year's work to the satisfaction of the College Authorities.

Fee £38.00 per annum.
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 Year
Science and Mathematics, Drawing and Materials, Production Technology and General Studies.

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

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

Fee £16.00 per annum.

MECHANICAL ENGINEERING TECHNICIANS' BLOCK-RELEASE COURSE

This is a block-release course which is intended to prepare suitable applicants for the City & Guilds Mechanical Engineering Technicians' examinations (255). The course is of four months' duration.

Other details as for D/47A.

Fee £16.00 per annum.

D/127. MOTOR VEHICLE TECHNICIANS. PART-TIME

This part-time course prepares students for
(1) The Department of Education Technological Certificate (Motor Car Engineering) and
(2) The 390 City & Guilds of London Institute Motor Vehicle Technicians Certificate Parts I and II.

Duration of Course
38 weeks each year over 4 years.

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

Subjects

Entrance Qualifications
Day Vocational Group Certificate or Intermediate Certificate with Honours in Mathematics, Science and one other subject.

Fee £11.00 per annum.

D/135. AUTO-ENGINEERING TECHNICIANS

Department of Education Advanced Motor Car Engineering Technological Certificate and the 390 Part III City & Guilds of London Institute Motor Vehicle Technicians' Full Technological Certificate.

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 £11.00 per annum.
TRADE COURSES

These 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.

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 two years' instruction and the Senior Stage after a further two years.

Fee £6.00 per annum except in the case of designated trades where admission is free.

D/126 AUTOMOBILE ENGINEERING

The Department of Education Group Trade Certificate, Block Release Course, with link correspondence course.

Duration of Course 11 weeks of 35 hours each week.


Entrance Qualifications Day Vocational Group Certificate or Intermediate Certificate.

D/128 AUTOMOBILE ENGINEERING


Duration of Course 2 years of 38 weeks each year.

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


Entrance Qualifications Day Vocational Group Certificate or Intermediate Certificate.

D/129 AUTOMOBILE ENGINEERING

The City and Guilds of London Institute Motor Vehicle Mechanics' Certificate (375) Part II.

Duration of Course 2 years of 38 weeks each year.

Subjects A more advanced treatment of the subjects included in the Part I (375) course (D/128).

Entrance Qualifications (375) Part I of the Certificate.

D/130 AUTOMOBILE ENGINEERING

The City and Guilds of London Institute Motor Vehicle Parts Department Practice Certificate (376).

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

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

Entrance Qualifications (375) Part I of the Certificate.

D/131 AUTOMOBILE ENGINEERING

The City and Guilds of London Institute Motor Vehicle Electricians' Course (375).

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

Subjects Motor Vehicle Technology; Motor Vehicle Electricity; Engineering Science and Mathematics; Technical Drawing; Electrical Workshop Practice; General Studies.

Entrance Qualifications (375) Part I of the Certificate.
## Trade Courses

### D/132 AUTOMOBILE ENGINEERING
- **The Department of Education Group Trade Certificate, Senior Stage.**
- **Duration of Course:** 3 years of 38 weeks each year.
- **Attendance:** ½ day (3½ hours) and 2 evenings (6 hours) each week.
- **Subjects:** Garage Practice; Motor Workshop Practice; Motor Vehicle Theory; Motor Vehicle Science and Electricity; Mathematics and Craft Calculations; Technical Drawing; General Studies.
- **Entrance Qualifications:** The Department of Education Group Trade Certificate, Senior Stage.

### D/133 AUTOMOBILE ENGINEERING
- **City and Guilds of London Institute Motor Vehicle Body Repair Endorsement—375 Part III.**
- **Duration of Course:** 1 year part-time day and evening (9 hours per week).
- **Subjects:** Motor Body Technology; Drawing and Sketching; Motor Body Workshop Practice; Materials used in Motor Body Construction; Refinishing Practice.
- **Entrance Qualifications:** City and Guilds of London Institute Motor Vehicle Mechanics Certificate, 375 Parts I and II.

### D/134 AUTOMOBILE ENGINEERING
- **The City and Guilds of London Institute Compression Ignition Engine Maintenance Work Endorsement on 375 Certificate—375 Part III.**
- **Duration of Course:** 1 year part-time day and evening course (9 hours per week).
- **Subjects:** Compression Ignition Engine Technology; Compression Ignition Engine Maintenance; Fuel Injection System Maintenance.
- **Entrance Qualifications:** City and Guilds, Motor Vehicle Mechanics Certificate 375 Parts I and II.

### D/141 FITTING AND TURNING
- **Junior and Senior Trade Certificates, Department of Education.**
- **Duration of Course:** Four year block release course (11 weeks duration).
- **Subjects:** Workshop Practice and Theory, Mathematics, Engineering Science, Technical Drawing, Physical Training, General Studies.

### D/142B MECHANICAL ENGINEERING CRAFT PRACTICE
- **City & Guilds of London Mechanical Engineering Craft Practice (Course 155 Part II).**
- **Duration of Course:** One year part-time day course (1 day per week).
- **Entry Qualifications:** Part I of the Certificate or Senior Trades Certificate.

### D/142C MECHANICAL ENGINEERING CRAFT PRACTICE (FITTING PROCESSES)
- **City & Guilds of London Mechanical Engineering Craft Practice Supplementary Examination.**
- **Duration of Course:** One year part-time day course (1 day per week).
- **Entry Qualifications:** Part II of Certificate (155).

### D/142D MECHANICAL ENGINEERING CRAFT PRACTICE (MACHINING PROCESSES)
- **City & Guilds of London Mechanical Engineering Craft Practice Supplementary Examination in Machine Processes.**
- **Duration of Course:** One year part-time day course (1 day per week).
- **Entry Qualifications:** Part II of the Certificate (155).
Trade Courses

*D/143  GAS+ELECTRIC WELDING
A five-year Course requiring attendance on one day per week. This Course meets the requirements of the Irish Welding Association qualification tests for Welders.

*D/149  SHEET METAL
A four-year course requiring attendance on one day and two evenings per week.

*D/150  METAL FABRICATION
A four-year course requiring attendance on one day and one evening per week.

*D/151  PLUMBING/HEATING FITTING
A four-year Course requiring attendance on one day per week.

*Conducted in the School of Trades.

School of Printing
+ Book Production

The School of Printing and Book Production offers courses at technological/technician level as follows:

D/81 Higher Printing Education
D/81A Printing Technology
D/81B Printing Production Management
D/82 Training for Administrative Staff
D/86 Design for Printing
E/83 Applied Printing
E/83A Printing Office Procedure
E/84A Cost Accountancy for Printers
E/84B Cost Estimating for Printing
E/85 Paper Technology and Marketing
E/86 Typographic Design and Layout
E/89 Basic Diploma Course in Advertising
E/90 Diploma Course in Advertising

Courses up to Advanced Level are held as follows:

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.

PHOTOTYPOGRAPHY
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.

The above mentioned techniques are also integrated in the existing block release schemes for apprentices from industry, also the Higher Printing Education Course.
LETTERPRESS MACHINE PRINTING

The Letterpress Department covers the requirements of the Department of Education Syllabus up to Senior level and of the City and Guilds 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 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

D/82

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

Principles of Accounts, Structure of Commerce, Economic History. Practical appreciation of the techniques of the work of hand and mechanical composing; Bookbinding and Print Finishing; Graphic Reproduction; General Technical Knowledge.

Year Two


Year Three


Fee £16.00 per annum.
**HIGHER PRINTING EDUCATION**

This is a two-year block release course of 12 weeks each year for selected students to prepare them for positions of responsibility in the industry. Candidates for this course will be of senior or post-apprenticeship status in the age group 20-25 years and a maximum number of twelve will be enrolled each session. Selection will be based on a satisfactory result to interview and the minimum qualification is the Senior Certificate of the Department of Education—or its equivalent—in the various disciplines.

The field of study will be concentrated mainly in Technology, Management and Science. Students will be required to prepare and submit, under supervision, projects in each of these areas. The course will be supplemented by visits to industry, paper and ink laboratories and by lectures on particular topics from external lecturers.

Fee £21.00 per annum.

**PRINTING TECHNOLOGY**

Composing, Letterpress Machine Printing, Lithography and Photo Lithography, Bookbinding and Print Finishing Processes.

Entrance Requirements

Senior Trade Certificate (with Pass in Science)

These are courses requiring attendance at the College for a day and two evenings (12 hours) weekly per session. The courses are aimed at preparing students for the Advanced Examination of the City and Guilds of London Institute.

Fee £11.00 per annum.

**TYPOGRAPHIC DESIGN (Diploma Course in)**

This course shall normally occupy two years and may be taken by means of either day or evening classes.

Object

The course is intended for those engaged in printing and publishing houses, advertising agencies and studios. The aim of the course is to enable the student to execute a wide variety of different practical design problems in the field of typographic design; projects are set relating to the many different aspects of typography.

Entrance Requirements

Senior Trade Certificate of the Department of Education. (Students who have not a Senior Certificate in a printing subject are advised to take the Applied Printing course as well).

Fee £11.00 per annum.

**LETTERPRESS MACHINE PRINTING**

Consecutive courses of 12-13 weeks' duration for first, second and third year apprentices. During each course the apprentices attending complete a stage of the Department of Education's syllabi 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.

Fee £6.00 per annum except in the case of designated trades where admission is free.

**PHOTO PROCESSES FOR GRAPHIC REPRODUCTION**

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

**STEREOTYPING AND ELECTROTYPING**

A 4-year part-time course for first, second, third and fourth year apprentices of 4½ hours day instruction.

**COMPOSING**

Consecutive courses of 12-13 weeks' duration for first, second and third year apprentices. During each course the apprentices attending complete a stage of the Department of Education's syllabi 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.
D/191 BOOKBINDING
(Block Release Course)
A block-release course of 12-13 weeks' duration for first, second and third year apprentices. During each course, the apprentices attending complete a stage of the Department of Education syllabi, 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.

D/192 LITHOGRAPHY AND PHOTO-LITHOGRAPHY
(Block release Course)
Consecutive courses of 12-13 weeks' duration for first, second and third year apprentices. During each course the apprentices attending complete a stage of the Department of Education's syllabi for the Junior, Intermediate and Senior Trade Certificate Examinations in Lithography and Photo-Lithography Work. An examination in each stage is set by the Department of Education at the conclusion of each course.

D/195 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.

D/195A FILM ASSEMBLY AND PHOTO HEADLINER DISPLAY TECHNIQUES
Course for nightworkers (compositors and senior apprentices). Duration of course is 26 weeks with attendance for 2½ hours on one afternoon per week. Course content is the same as E/195.
Fee £6.00 per annum.
DAY COURSES

PART-TIME DAY RELEASE CLASSES FOR APPRENTICES

D/102. Plastering.
D/105. Painting and Decorating.
D/108. Vehicle Trimming,
D/111. Cabinetmaking.
D/112. Upholstery.
D/113. Woodfinishing.
D/121. Carpentry and Joinery.
D/122. Woodcutting Machinists' Work.
D/143. Welding.
D/145. Foundry Work.
D/149. Sheetmetal Work.
D/150. Metal Fabrication.
D/151. Plumbing/Heating Fitting.

PART-TIME DAY RELEASE COURSE FOR TECHNICIANS

D/4C & D/4D TECHNICIANS IN THE CONSTRUCTION INDUSTRY

Objectives
The Course is designed to prepare students for the Construction Technician's Certificate and the Licentiateship examinations of the various professional bodies in the Building Industry.

Entry Qualifications
Students are required to be employed in the construction industry and to have an educational qualification of Leaving Certificate standard, or equivalent.

Duration
The Course is of four years duration involving attendance on one full day and two evenings each week.

Fee £11·00 per annum.

Trade Courses

Course Content, Etc.

First Year

Second Year

Third Year
Construction Technology and Services, Land Surveying and Setting Out, Measurement and Price Build-up, Site Organisation and Administration. Examination: Part II (Final) City & Guilds of London Construction Technician's Certificate (626).

Fourth Year

General
Students entering the Course should realise that a considerable amount of private study must be undertaken by them if they are to maintain progress in the various subjects. In particular, they will be required to prepare, for external assessment, a number of projects dealing with Construction Technology, Measurement and Price Build-up, and Site and Land Surveying. From four to six projects will be expected under each heading in second and subsequent years.

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
(i) Leaving Certificate or equivalent.
(ii) Employment in the Plumbing Industry.

Tuition Fee £11·00 per annum.
E/2

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 £16.00 per annum.

E/3.

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

E/41. GRADUATE COURSES IN ENGINEERING

A 4/5-year course to prepare students for the examination of the following Professional Engineering bodies:

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

Courses will be offered if there are sufficient applicants of a suitable educational standard for the following:

(a) Institution of Engineers of Ireland Part II Examination.
A selection of subjects will be offered in both Civil and Mechanical Engineering to suit the majority of the applicants. Prospective students should indicate their choice of optional subjects.
(b) Council of Engineering Institution (CEI) Part I.
Some or all of the following subjects may be offered:
Mathematics, Mechanics, Thermodynamics, Electrotechnology, 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.

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 requirements for the student membership of the Institution of Engineers of Ireland are Leaving Certificate with Honours or GCE Advanced Level in Mathematics and four Ordinary Level subjects including English and Physics.

Fee £11.00 per annum.

E/54. STRUCTURAL DESIGN

This is a one-year advanced course intended for those who wish to sit the Final 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.

E/56. ENGINEERING MANAGEMENT COURSE

This is a one-year non-qualifying course intended for trainee engineering managers.

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

Course of Study

Plant layout and materials handling.
Production planning and control.
Operations research and statistics.
Computer applications and programming.

Fee £11.00 per annum.

E/40. 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, Pure Mathematics, Additional Pure Mathematics, Physics, Chemistry, Technical Drawing, and Surveying. 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, Applied Mathematics, Physics and Technical Drawing. The entrance standard is Leaving Certificate Honours or GCE Ordinary level in the appropriate subjects.

Fee per annum:
£8.50 for four subjects,
£1.50 for each additional subject.
E/42. TECHNOLOGICAL CERTIFICATE COURSE IN MECHANICAL ENGINEERING

A 5/6-year course 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.

At the end of the Fifth/Sixth year—Higher Technological Stage in selected subjects.

The entrance requirements are Department of Education Intermediate Certificate or Day Group Certificate with passes in Mathematics, English and a Science Subject.

Fee £11.00 per annum.

E/43C. CIVIL ENGINEERING TECHNICIANS’ CERTIFICATE COURSE

This is a four-year evening course to prepare students employed as Instrument Technicians for the Part II 275 City & Guilds Instrumentation Technicians Certificate. The entrance requirements are 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.

E/43M. MECHANICAL ENGINEERING TECHNICIANS

This is a four-year evening course to prepare students in suitable employment for a College examination leading to the award of a Mechanical Engineering Technician Certificate. The entrance requirements are Leaving Certificate or GCE equivalent.

Subjects
First Year

Fee £11.00 per annum.

E/43S. STRUCTURAL ENGINEERING DESIGN/DETAILING

This is a two-year course intended for those who have experience in structural drawing offices and are preparing for Parts I and II 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.
E/44. 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 26 weeks each year.

Subjects
- Motor Industry Practice.
- Motor Industry Management.
- Motor Industry Accountancy.
- Motor Industry Administration and Organisation (Services 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.

Fee £11.00 per annum.

E/45. 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.

E/47. MECHANICAL ENGINEERING TECHNICIAN COURSE

This is a four-year evening course to prepare students for the 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.

Fee £11.00 per annum.
E/49. 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.

E/50. DATA PROCESSING FOR COMPUTER USERS
This is a one-year course in which students are prepared for the City & Guilds Examination No. 748 (Data Processing for Computer users).
Entrance Requirements Leaving Certificate with Commercial or Industrial experience.
       Fee £11.00 per annum.

E/52. PLUMBING TECHNICIANS
This is a two-year course for students who have a good detailed craft knowledge to prepare them for posts as Plumbing Designers, Estimators or Supervisors. Entrance qualifications are the Senior Stage Certificate (Plumbing) of the Department of Education or 1st Class Pass in Plumbers Work (Final Stage) of the City & Guilds of London Institute or equivalent.
       Fee £11.00 per annum.

E/58. 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:
       Basic Thermodynamics, Refrigeration Processes and Refrigeration Machinery.
       Fee £11.00 per annum.

E/135. AUTOMOBILE ENGINEERING
Duration of Course 2 years evening (9 hours per week) for 26 weeks each year.
Subjects Motor Car Engineering.
       Automobile Electricity.
       Heat Engines.
       Applied Mechanics.
       Garage Organisation and Management.
Entrance Qualifications Department of Education Intermediate Motor Car Engineering Technological Certificate (3 subjects) or 390 the City & Guilds of London Institute Parts I and II Certificate.
       Fee £11.00 per annum.

E/139. 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.
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 E/141. Fitting & Turning.
Course E/143. Gas + Electric Welding.
Course E/144. Patternmaking.
Course E/145. Foundry Work.
Course E/149. Metal Plate Work.

Fee £5.50 per annum.

E/133.

MOTOR VEHICLE BODY REPAIR COURSE
375 City & Guilds of London Institute Motor Vehicles Body Repair Endorsement Part III.

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

Subjects
Motor Body Technology,
Drawing and Sketching,
Motor Body Workshop Practice,
Materials used in Motor Body Construction,
Refinishing Practice.

Entrance Qualifications
375 City & Guilds of London Institute Motor Vehicle Mechanics Certificate, Parts I and II.

E/134.

COMPRESSION IGNITION COURSE
375 City & Guilds of London Institute Compression Ignition Engine Maintenance Certificate, Part III.

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
375 City & Guilds of London Institute Motor Vehicle Mechanics' Certificate, Parts I and II.

E/136.

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.

E/137.

WAREHOUSE SUPERVISORS (MATERIALS HANDLING) COURSE
Duration of Course
6 weeks of 5 hours each week (30 hours).

Subjects
Type of Equipment used in Materials Handling,
Warehouse Layout.
Safety in the Warehouse.

Entrance Qualifications
In employment as a warehouse supervisor or with a firm offer.

E/138.

FORK LIFT TRUCK OPERATORS' COURSE
Duration of Course
6 weeks of 5 hours each week (30 hours).

Subjects
Fork Truck Knowledge.
Loading and Stability.
Daily Check and Inspection of Truck.

Entrance Qualifications
In employment as a fork truck driver or with a firm offer.

E/140.

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 Group Trade Certificate of the Department of Education.
Trade Courses

E/142A  MECHANICAL ENGINEERING CRAFT PRACTICE
City & Guilds of London Mechanical Engineering Craft Practice
(Course 155 Part I).

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

Entry Qualifications Junior Trade Certificate, Department of Education.

E/142B  MECHANICAL ENGINEERING CRAFT PRACTICE
City & Guilds of London Mechanical Engineering Craft Practice
(Course 155 Part II).

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

Entry Qualifications Part 1 of the Certificate (155) or Senior Trade Certificate,

E/141  FITTING AND TURNING
Junior and Senior Trade Certificate of the Department of Education.

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

Entry Confined to Mechanical Engineering Apprentices.

School of Printing + Book Production

TECHNICIAN COURSES

E/81.  HIGHER PRINTING EDUCATION
This course is a continuation of the Day Block Release Course
(see Course D/81).

E/81A.  PRINTING TECHNOLOGY
COMPOSING
LETTERPRESS MACHINE PRINTING
LITHOGRAPHY AND PHOTO-LITHOGRAPHY
BOOKBINDING AND PRINT FINISHING

These are courses requiring attendance at the College for three
evenings (9 hours) weekly per session. The courses are aimed at
preparing students for the Advanced Examination of the
City & Guilds of London Institute.

Fee £8.50 per annum.

E/82.  TRAINING FOR ADMINISTRATIVE STAFF
This course is a continuation of the Day Course for Administrative Staff
(see Course D/82).

E/83.  APPLIED PRINTING
A course requiring attendance for 2 evenings each week
designed to provide those engaged in the Clerical and
Administrative side of Printing with a general knowledge of the
crafts involved in modern printing and of the materials and appliances
used. Students who complete the course may enter the General
Technical Knowledge examination of the British Federation of Master
Printers. It is also necessary to have passed the General Technical
Knowledge examination to be accepted as a candidate for the following:
(a) Training for Administrative Staff.
(b) Estimating examination of the British Federation of Master Printers.

Fee £6.00 per annum.
Technician Courses

E/83A. PRINTING OFFICE PROCEDURE
Object: This course, requiring a minimum attendance for two evenings each week, is aimed at preparing printing administrative personnel for the Printing Office Procedure Examination of the British Federation of Master Printers.
Entrance Qualifications: It is recommended that those entering the course should possess the General Technical Knowledge Certificate of the British Federation of Master Printers or equivalent qualification.
Fee: £6.00 per annum.

E/84A. COST ACCOUNTANCY FOR PRINTERS
A course requiring attendance for two evenings each week designed to prepare students for the examination of the British Federation of Master Printers.
Fee: £6.00 per annum.

E/84B. COST ESTIMATING FOR PRINTERS
A course requiring attendance for two evenings each week designed to prepare students for the examination of the British Federation of Master Printers.
Fee: £6.00 per annum.

E/85. 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: £6.00 per annum.

E/86. TYPOGRAPHIC DESIGN AND LAYOUT
Course A—This course shall normally occupy two years and may be taken by means of either day or evening classes. Its aim is to prepare compositor students for the examinations of the Department of Education and the City & Guilds of London Institute.
Course B—A two-year course for students of Art and those engaged in publishing houses, design studios, advertising agencies and printing houses. Students will be expected to have at least an elementary knowledge of Typography and are consequently advised to take the Applied Printing course as well.
Fee: £6.00 per annum.

E/89. BASIC DIPLOMA COURSE IN ADVERTISING
The part of the above course of the College of Commerce, Rathmines, dealing with Printing and Reproduction methods, is now being taken in the School of Printing.
Enrolments at College of Commerce.

E/181 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 tooling, 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.

E/181A 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.
E/181B  BOOK PRODUCTION COURSE
This is intended for those involved in the care of books particularly librarians, librarians under training, record office staff etc. It will cover machinized 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.

E/182B  PRINT FINISHING FOR FEMALE EMPLOYEES OF THE PRINTING INDUSTRY
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, glueing, mounting, etc.

E/183  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.

E/185  LINOTYPE, INTERTYPE, AND TELETYPESETTING
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 year's duration.
Fee £6.00 per annum.

E/186  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 £6.00 per annum.

E/187  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 year's duration.
Fee £6.00 per annum.

E/190  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.

E/191  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.

E/192  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.
E/195 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.

E/195A IBM KEYBOARD CONVERSION AND PAPER MAKE-UP COURSE
Entrance Qualifications
At present this course is only open to compositors and senior apprentices who have completed a 'Sight and Sound' touch typing course.

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.

Note
Where applicable, courses are supplemented by films and visits to industry.

Fee £6.00 per annum.

E/196 DIPLOMA COURSE IN 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.

Entrance Requirements
Leaving Certificate or equivalent.

Fee £6.00 per annum.

E/197 PRINT MAKING AND GRAPHICS
The Lithographic Department is well equipped to operate courses in print making and graphics which include drawing and proofing from lithographic stones and plates, lino and wood cuts and engravings. Courses for art teachers and others, are organised according to the demand.

Entrance Requirements
Leaving Certificate (including Art) or equivalent.

Fee £11.00 per annum
School of Trades

EVENING COURSES

TECHNICIAN COURSES
CONSTRUCTION TECHNICANS

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, leading to the examinations conducted by the Department of Education, and the City and Guilds of London Institute are provided in:

E/105. Painting and Decorating.
E/111. Cabinetmaking and Design.
E/112. Upholstery.
E/113. Wood-finishing.
E/121. Carpentry and Joinery.
E/122. Woodcutting Machinist's Work.
E/143. Welding.
E/143A. Welding (Short Courses).
E/144. Patternmaking.
E/145. Foundrywork.
E/148. Smith & Art Ironwork.
E/149. Metal-plate work.
E/151. Plumbing/Heating Fitting.

Entrance Qualifications
Employment in the relevant trade.

Fee £5.50 per annum.

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

EXAMINATIONS

At the end of each session internal examinations are held in connection with the courses. Promotion of students depends on success in these examinations. Students who have not the required attendances at the courses will not be permitted to take these examinations. Students are required to acquaint themselves with the examination and promotion regulations of the course which they take.

External Examinations

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) Composers' 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) Building 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.

3. Other Bodies
(i) British Federation of Master Printers.
(ii) City & Guilds of London Institute.
(iii) Department of Industry and Commerce. (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).

Note
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 all the necessary applications and provide all documents that may be required. In this connection any documents and certification (e.g. statements of attendance, etc.) required from the College authorities should be applied for at the earliest opportunity.

4. The College Authorities will give the fullest assistance and advice in the above matters.

ADVISORY COMMITTEES

Structural Engineering
P J Carroll ME MIstructE MICE MIEI
S F Dunleavy BE CEng MIstructE MICE MIEI
R T Holloway BE CEng MIstructE MICE MIEI
J J Harrington BE CEng MIstructE MIEI

Architecture
F B Meehan MRIAI BArch
H S Robson MSc BArch MRIAI ARIBA
D O'Toole FRIA AMTP

Architectural Technicians
Denis J McGloughlin MIAAT
John M McCarthy MSAAT MIAAT

Town Planning
L Carvill DipArch (Liv) Dip Civic Des (Liv) ARIBA AMTP
J Conway BE AMTP
G Meagher BComm DPA
M O'Brien BE AMTP

Mechanical Engineering Trades
J Cassidy General Secretary National Engineering Union
H T Hanlon Irish Engineering Industrial & Electrical Trade Union
P J Buckley Irish Engineering Industrial & Electrical Trade Union
F Gray Personnel Officer Coras Iompair Eireann
O McLoughlin Messrs Tonge & Taggart
S O'Flaherty Managing Director Messrs Motor Distributors Ltd
John Watt 57 Ranelagh Road Dublin 6
T W Bamford Managing Director Universal Fabricators
H Farrelly District Secretary United Society of Boilermakers and Iron and Steel Shipbuilders

Heating and Ventilating Engineering
Eoin O Cionna BE MICEI AMIEE MIHVE MASHRAE MConsEI Hon Secretary The Association of Consulting Engineers of Ireland
Noel Traynor AMIHVE Hon Secretary The Association of Master Plumbers Heating & Ventilating Engineers of Ireland
Seamus Homan AMIHVE Design Engineer Varming & Mulcahy Consulting Engineers
Eamonn O'Brien c/o Rob Jacob Consulting Engineers
Reginald Keating GHI HE Hon Secretary The Association of Design Engineers & Draughtsmen
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<td>William Joyce</td>
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<td>Gerard Wall Secretary Irish Society of Woodcutting Machinists</td>
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<td>H R Armstrong Messrs Brooks-Thomas &amp; Co</td>
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<tr>
<td><strong>Furniture Trades</strong></td>
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<tr>
<td>D McCarthy O’Dea &amp; Co Ltd</td>
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<tr>
<td>P F McGrath Irish National Union of Woodworkers</td>
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<tr>
<td>J Carroll Amalgamated Society of Woodworkers</td>
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<tr>
<td>G L Wall Irish Society of Woodcutting Machinists</td>
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<td>J R Hunter J R Hunter &amp; Co Ltd</td>
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<tr>
<td>W Robinson National Union of Furniture Trade Operatives</td>
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<tr>
<td>52 Peter’s Hill Belfast 13 Northern Ireland</td>
</tr>
<tr>
<td>P Marrey Furniture Manufacturer 20a St Joseph’s Parade Dublin 7</td>
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<tr>
<td><strong>Joinering</strong></td>
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<td>Operative Plasterers’ Trade Society</td>
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<tr>
<td>Gerard Doyle</td>
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<tr>
<td>T Byrne M Creedon Ltd 3 Ardee Road Dublin 6</td>
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<td><strong>Plumbing</strong></td>
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<td>Association of Master Plumbers Heating &amp; Ventilating Engineers of Ireland</td>
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<td>P J Clonan</td>
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<td>J B Doherty</td>
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<td>P J Duffy</td>
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<td>J N Traynor</td>
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<td>T Harrington</td>
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<td>A Harmon</td>
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<tr>
<td>T King</td>
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<td>J Lahiff</td>
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<td>T Russell</td>
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<td>M Jackson</td>
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<tr>
<td>H Samway</td>
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<tr>
<td>G J Roberts Coach and Motor Body Builder 3A Lower Grangegorman Dublin 7</td>
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<td>M F Gavigan</td>
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<tr>
<td>P Delaney Aer Lingus Teo Dublin Airport</td>
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<tr>
<td>Lieut-Col J Teague Army Air Corps Baldonnel</td>
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<tr>
<td>Capt P G McCabe Aeronautical Officer Aviation Division Department of Transport &amp; Power</td>
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Mechanics, Imperial College of Science and Technology, London
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Imperial College of Science & Technology
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