1973

College of Technology, Bolton Street Prospectus 1973-74

City of Dublin Vocational Education Committee

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1973-74 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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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: Eanna de Burca FRICS
Assistant Head: Vacant
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 MIPredE 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 FSLAET
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: Vacant
Asst. Heads of Dept: Prionsias O hÉifearnain 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: Vacant

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 Courses
Students are admitted at the commencement of the session in September. Applications for admission to whole-time 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. Results should be forwarded in support of applications as soon as they become available to the applicant.

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 each Stage, term or 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 year or Stage in any subject is contingent on reaching the required standard in Sessional Examination in the Lower grade.

Examinations
An Examination fee of £5.00 is payable in respect of College sessional examinations. Closing date for receipt of College Examination fees is 28th February 1974. In exceptional circumstances and at the discretion of the College Examination Board a candidate may be allowed to enter for
National Council for Educational Awards
The NCEA was established by the Government in 1972 for the purpose of awarding qualifications to technicians and technologists attending non-university institutions. Already some Engineering students have been awarded National Certificates and Diplomas and submissions have been made by the College seeking NCEA recognition in respect of a number of other Courses up to and including those at degree level.

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 Higher Education grants to eligible students to enable them to pursue courses of higher education at universities and comparable institutions. The following courses offered by the College qualify for these grants: Architecture, Engineering, Construction Economics, Environmental Economics and Geo-Surveying.

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

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

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 misbehaving 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.

Projectwork
Students are required to submit regularly such projectwork and coursework 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 Personal Property
Bicycles and motor cycles brought to the College premises by students should be locked and placed in the appropriate parking area. Coats, books, etc., should be clearly marked with the owner's name.

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

Technological + Technician Courses (Day)
Architecture, Surveying + Building
D/1. Architecture Diploma Course. Whole-time.
D/2B. Higher Building Technicians’ Certificate. Whole-time.
D/3B. Diploma Course in Environmental Economics. Whole-time.
D/4B. Diploma Course in Construction Economics. Whole-time.
D/7. Health Inspectors’ Diploma Course, Sandwich.

Engineering
D/42. Diploma Course in Mechanical, Production & Structural Engineering. Whole-time.
D/43C. Civil Engineering Technicians’ Course. Whole-time/Part-time.
D/43M. Mechanical Engineering Technicians’ Course. Whole-time/Part-time.
D43V. Heating, Ventilating & Airconditioning Technicians’ Course. Whole-time/Part-time.
D/44. Diploma in Motor Industry Management.
D/45. Aircraft Technicians’ Course, Sandwich.
D/46M. Mechanical Engineering Higher Technicians’ Course, Sandwich.
D/46H. Diploma Course in Heating and Ventilating Engineering. Sandwich.
D/46C. Civil Engineering Higher Technicians’ Course.
D/47A. Mechanical Engineering Technicians’ Course. Part-time.
D/47B. Mechanical Engineering Technicians’ Course. Block release.

Printing
D/82. Training for Administrative Staff. Part-time.
D/83. Higher Printing Education.

School of Trades
D/4C or D/4D. Construction Technicians. Part-time.

Technological + Technician Courses (Evening)
Architecture, Surveying and Building
E/2. Short term Course for the Construction Industry.
E/3. Timber Technology.

Engineering
E/40. General Certificate in Education.
E/41. Graduate Courses in Engineering.
E/42. Certificate Engineering Technicians’ Course.
E/43C. Civil Engineering Technicians’ Course.
E/43N. Instrumentation Technicians’ Course.
E/43M. Mechanical Engineering Technicians’ Course.
E/43S. Structural Engineering Draughtsmanship Course.
E/43V. Heating, Ventilating and Airconditioning Technicians’ Course.
E/44. Motor Industry Management Course.
E/46. Aeronautical Engineering Technicians.
E/47. Diesel Maintenance.
E/48A. Welding Technicians’ Course.
E/48B. Non-Destructive Testing.
E/49. Automobile Engineering Technicians.
E/51. Instrumentation and Control.
E/52. Plumbing Design and Technology.
E/53. Jig and Tool Design.
E/54. Advanced Structural Design Course.
E/57. Works Managers’ Course.
E/58. Refrigeration Engineering Technicians.
E/139. Materials Handling.

School of Trades
E/1. Building Technicians.

Printing
E/81. Printing Technology.
E/82. Training for Administrative Staff.
E/84A. Costing.
E/84B. Estimating.
E/86. Typographic Design and Layout.
E/89. Basic Diploma Course in Advertising.
E/90. Diploma Course in Advertising.

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

- **Engineering**
  - D/126. Automobile Engineering, Block release.
  - D/129. Automobile Engineering, Part-time.
  - D/130. Motor Vehicle Parts (City & Guilds), Part-time.
  - D/131. Motor Vehicle Electricians (City & Guilds), Part-time.
  - D/133. Motor Vehicle Body Repair (City & Guilds), Part-time.
  - D/134. Motor Vehicle Mechanics (City & Guilds), Part-time.
  - D/141. Fitting and Turning, Block release.
  - D/149. Sheet Metal, Part-time.
  - D/150. Metal Fabrication, Part-time.

- **Printing**
  - D/183. Letterpress Machine Work, Block release.
  - D/184. Photo Processes for Graphic Reproduction, Block release.
  - D/186. Stereotyping and Electrotyping, Part-time.
  - D/190. Compositors' Work, Block Release.
  - D/192. Lithography and Photo-Lithography, Block Release.
  - D/195. Film Make-up, Block release.

- **School of Trades**
  - D/105. Painting and Decorating, Part-time.
  - D/111. Cabinet Making, Part-time.
  - D/112. Upholstery, Part-time.
  - D/122. Woodcutting Machinists' Work, Part-time.

### Trade Courses (Evening)

- **Engineering**
  - E/137. Warehouse Supervisors' Course.

  *Located in School of Trades.*

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

- **School of Trades**
  - E/122. Woodcutting Machinists' Work, Part-time.
  - E/143A. Welding, Short Courses.
School of Architecture
Surveying and Building

DAY COURSES
School of Architecture
Surveying and Building

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

The Architect is responsible for the design and supervision of building projects. The Construction Economist, according to his specialisation, may be concerned, as quantity surveyor, with projects, economics or with the management of the building operation.

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

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

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

DIPLOMA COURSE IN ARCHITECTURE

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

Students are required to have not less than 75% attendance at lectures and studio work in each session before being eligible to take the sessional or other examinations.

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

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

Note: Subjects must include Mathematics and English.

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; Irish Art and Architecture; Art and Civilisation; Building Construction and Materials; Building Services I; Theory of Structures; Craftwork.

Third Year
- Studio Work: Theory of Architecture; History of Town Planning; Interior Design; 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; Urban Design (including Sociology); Economics and Cost Control; Landscape Design.

Fifth Year
- Studio Work: Structural Engineering; Professional Practice; Town Planning (Theory); Specifications and Materials: Economics and Cost Control.

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: £33.00 per annum.

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: Maths, Building Science, Mechanics, Surveying & Levelling, Geometry.

Fee: £33.00 per annum.

CERTIFICATE COURSE FOR PLANNING TECHNICIANS

(To commence September, 1974)
D/3B. DIPLOMA COURSE IN ENVIRONMENTAL ECONOMICS

This is a four year course leading to a Diploma in Environmental Economics and is designed for those who wish to work as Valuers, Estate Agents, Property Advisers, Developers and Planners in either private or public employment. Holders of this Diploma are exempted from all academic examinations leading to Corporate Membership of the Royal Institute of Chartered Surveyors, General and Town Planning Sections, and from the Intermediate examination of the Royal Town Planning Institute. The course is also recognised by the Irish Auctioneers' and Valuers' Institute.

Subjects

First Year
Mathematics; Science; Principles of Accounts; Economics; Construction Technology I; History of Property Rights and Introduction to Valuations; Communications; Structure of the Building Industry and an Introduction to Measurement.

Second Year
Principles of Valuation; Town and Country Planning; Applied Economics; Local Government Social Services; Construction Technology; Law (Principles of Law, Law of Contract, Law of Property); Land Surveying; Applied Statistics; Computer Appreciation.

Third Year
Applied Valuations; Urban Economics; Management and Maintenance of Buildings; Law (Landlord and Tenant Law, Law of Obligations; Planning Law); Town and Country Planning.

Fourth Year
Land Taxation; Applied Valuation II; Urban Economics II; Computer Applications; Arbitrations and Administrative Law. Applied Town and Country Planning.

Practical
Experience

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

Entry
Qualifications

(a) The Secondary Schools Leaving Certificate in at least five subjects 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

This is a four year course leading to a Diploma in Construction Economics and is designed for those who wish to work as Quantity Surveyors, Economic Advisers in the Construction Industry, Building Development Co-ordinators and Building Managers. Holders of this Diploma are exempted from all academic examinations leading to Corporate Membership of the Royal Institute of Chartered Surveyors, Quantity Surveying Section, The Institute of Building and The Institute of Quantity Surveyors.

Subjects

First Year
Mathematics; Science; Principles of Accounts; Economics; Construction Technology; History of Property Rights and Introduction to Valuations; Communications; Structure of the Building Industry and an Introduction to Measurement.

Second Year
Construction Technology II; Law (Principles of Law, Law of Contract, Law of Property); Applied Economics; Land Surveying; Cost Accountancy; Quantities; Applied Statistics; Computer Appreciation.

Third Year
Construction Technology III; Quantities; Law of Obligations; Principles of Structural Design; Maintenance of Buildings; Management Techniques; Management Accountancy.

Fourth Year
(Construction Economics)
Financial Administration; Site and Production Management; Computer Applications; Arbitration and Building Contract; Personnel Management and Human Relations, Civil Engineering Quantities.

Practical
Experience

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

Entry
Qualifications

(a) The Secondary Schools Leaving Certificate in at least five subjects 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 is designed for those who wish to work as Mineral Surveyors in the fields of Mining and Quarrying and as Land Surveyors in Commercial, National, and Local Government organisations.

First Year
Mathematics and Statistics; Physics and Electronics; Plane Surveying; Engineering and Surveying Drawing; Geology; Law; General Studies.

Second Year
Mathematics and Statistics; Physics and Electronics; Topographical Surveying; Geology; Astronomy; Mineral Surveying; Photogrammetry; Law; Map Production.

Third Year
Numerical Analysis and Digital Computing; Geodetic Surveying; Law; Minerals Surveying; Photogrammetry; Astronomy; Engineering Surveying; Soil and Rock Mechanics.

Fourth Year
Geodesy; Minerals Surveying; Photogrammetry; Professional Practice; Dissertation.

Practical Experience
Field camps are conducted as part of the course in each of the first three years. In addition students are required to gain field experience during the summer vacation.

Entry Qualifications
(a) The Secondary Schools Leaving Certificate in at least five subjects 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.

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 I; Atmospheric Pollution; Offensive Trades; Building Construction II; Public Health Law and Administration (Housing Law); Drainage; Water Supplies; Meat Inspection; Infectious Diseases; Public Cleansing; Philosophy II; Tutorial.

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

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

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

Fee £53·00 per annum.
D/2B. HIGHER BUILDING TECHNICIANS' CERTIFICATE COURSE

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

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.

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

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

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

Fee £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 awareness 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.
D/42.

TECHNOLOGICAL AND TECHNICIAN COURSES

DIPLOMA COURSES IN MECHANICAL, PRODUCTION AND STRUCTURAL ENGINEERING

These are four year courses leading to a College Diploma in Engineering. They are designed to prepare young people with a suitable educational background and aptitude for one of these branches of the engineering profession in accordance with their choice.

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:

Students are recommended 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.

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-81 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. 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 Production Engineering. Students holding this Diploma meet the academic requirements of the Institution of Engineers of Ireland.

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

Mathematics, Physics, Fluids, Mechanics, Structural Drawing and Design, Building Construction and Services, Surveying, and General Studies.

Third Year


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.

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, 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 £53.00 per annum.

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.

DIPLOMA IN MOTOR INDUSTRY MANAGEMENT

This three-year whole-time 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 wholetime course followed by two years of part-time studies, to prepare students for Civil Engineering Technician National Certificate. 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 wholetime 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 Design and Detailing, Engineering Materials and Laboratory Work, Mathematics and Computation, Construction Services and Supplies, Surveying, Planning and Administration, and General Studies.

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

Fee 1st year £33·00 per annum; 2nd and 3rd years £16·00 per annum.

D/43M.

MECHANICAL ENGINEERING TECHNICIAN CERTIFICATE COURSE

This is a one-year wholetime 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 or Course D/46H which enables them to continue their studies on a wholetime basis.

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

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

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.

D/46H

DIPLOMA COURSE IN ENVIRONMENTAL ENGINEERING

This is a two year sandwich course which prepares students for the College Technician Diploma Examination which is at a level similar to that required for Associateship of the Institution of Heating and Ventilating Engineers. It extends over 8 months of each year.

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

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

Course of Study                      Second Year
Mathematics, Mechanics, Energy Utilisation, Environmental Plant,
Environmental Science, Lighting, Acoustics and Water Services,
and General Studies.

Third Year
Mathematics, Energy Utilisation, Environmental Science, Environmental
Plant, Lighting, Acoustics and Water Services, Management
Studies and a Project.

Fee for the course £38.00 per annum.

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).

Entrance Requirements

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

Course of Study

First Year
Heating & Hot Water Services, Drawing & Design, Principles of
Electricity, Mechanics & Mechanics of Fluids,
Ventilation & Air Conditioning.

Second Year
Heat Generation and Boilerhouse Practice, Ventilation & Air
Conditioning, Heating & Hot Water Services.

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.

D/45.

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, 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 TECHNICIAN CERTIFICATE/AND DIPLOMA COURSE

This course prepares students for National Council of Education Awards 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 or Science subject preferably 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
Structural Design and Detailing, Mathematics and Computation, Engineering Materials and Laboratory Work, Surveying, Construction Services and Supplies, Planning and Administration, 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.

Students awarded the Diploma may qualify for the Associateship grade of membership of the Institution of Engineers of Ireland. At the end of the second year they may qualify for the award of a Technician Certificate. Students who reach a high standard in the Certificate examinations may be accepted into a third year course leading to the award of a Technician Diploma.

Fee £38.00 per annum.

D/46M. MECHANICAL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA COURSE

This course prepares students for the National Council of Education Awards Technician qualifications 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, Production Management, 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.
Technological and Technician Courses

D/47A. 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
- 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

- Workshop Processes and Practice
- Engineering Drawing and Materials
- Engineering Science
- Mathematics
- General Studies.

Second Year

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

Third Year

- Production Technology
- Mathematics and Statistics
- Metrology
- 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.

D/47B. 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

- Motor Car Engineering
- Engineering Science
- Automobile Electricity
- Heat Engines
- Applied Mechanics
- Garage Organisation and Management

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

- 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 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 Certificates, Block Release Course, with link correspondence course.

Duration of Course
11 weeks of 35 hours each week.

Subjects

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.

Subjects

Entrance Qualifications
Day Vocational Group Certificate or Intermediate Certificate.

D/130 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/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**
\( \frac{1}{2} \) 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, Junior 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 Technology 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/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.
SHORT COURSE PROGRAMME

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

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

School of Printing + Book Production

The School 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.

PHOTOTYPGRAPHY

Courses in this section are for re-training compositors in the latest composing techniques in Film Assembly and Photo Headliner display setting.

There are also keyboard conversion courses on the IBM Composition System, combined with Photo Headliner display setting and paper make-up techniques.

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

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

Year Three


Fee £16.00 per annum.
Technician Courses

D/81

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 apprentice 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 on 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.

D/81A

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.

D/86

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.

TRADE COURSES

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

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

D/183

LETTERPRESS MACHINE PRINTING
(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 Letterpress Machine Work. An examination in each stage is set by the Department of Education at the conclusion of each course.

D/184

PHOTO PROCESSES FOR GRAPHIC REPRODUCTION
A block-release course of 12-13 weeks' duration for first and second year apprentices.

D/188

STEREOTYPING AND ELECTROTYPING
A 4-year part-time course for first, second, third and fourth year apprentices of 4 1/2 hours day instruction.

D/190

COMPOSING
(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 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 for the Junior, Intermediate and Senior Trade Certificate examinations in Bookbinding. An examination in each stage is set by the Department of Education at the conclusion of each course.

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 Certificates Examination in Lithography and Photo-Lithography Work. An examination in each stage is set by the Department of Education at the conclusion of each course.

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.

School of Trades

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

DAY CLASSES
Para-time day courses (D/101 - D/153) are organised for apprentices in the industries referred to above. The students are released from work, by their respective employers, to attend classes on one full day weekly. The various courses lead, over a period of four years, to the Senior Trade Tests (Theory & Practice) of the Department of Education and the relevant examinations of the City and Guilds of London Institute. Opportunities are available for students to proceed to further courses on completion of their apprenticeship.

Technician courses, involving attendance on one full day and two evenings weekly, are offered to suitably qualified persons engaged in the Construction Industry. These courses, D/4C & D/153A, prepare students for the Construction Technicians' Certificate (Parts I & II) No. 626, and the Plumbing Technician's Certificate (Parts I & II) No. 631 of the City and Guilds of London, respectively.

EVENING COURSES
Evening Trade Courses, mainly at the more advanced levels, are organised on the basis of attendance on two evenings weekly. Provision is made for students to take the relevant trade tests.

The School also provides a comprehensive course in Building Construction and associated subjects for those engaged in the Construction Industry. The course content is based on the syllabus of the Department of Education Technological Examinations in Building at Elementary, Intermediate and Advanced levels.
DUTY COURSES

PART-TIME DAY RELEASE CLASSES FOR APPRENTICES

D/102. Plastering.
D/105. Painting and Decorating.
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

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

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.

D/153A

PLUMBING TECHNICIANS

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

Entry Qualifications

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

Tuition Fee £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.
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) Council of Engineering Institution (CEI), Institution of Engineers of Ireland.
Some or all of the following subjects may be offered:
Mathematics, Mechanics, Thermodynamics, Electrotechnics, Properties of Materials and Presentation of Engineering Information. Some of these subjects may also be offered by the College of Technology, Kevin Street, Dublin 8.
(b) Council of Engineering Institutions/Institution of Engineers of Ireland Part II. Depending on demand the following subjects may be offered: The Engineer in Society; Mechanics and Properties of Materials, Fluid Mechanics, Structural Analysis, Structural Design, Thermodynamics, Mathematics and possibly other subjects.

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

Price £50.

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 one other subject and three Ordinary Level subjects including English.

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/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:
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

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

Fee £11.00 per annum.

E/43 M. INSTRUMENTATION TECHNICIANS 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/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.
HEATING, VENTILATING AND AIRCONDITIONING

This is a two-year evening course to prepare students for the Part I and Part II examinations of the City & Guilds of London Institute—Heating, Ventilating and Airconditioning Technicians (622).

It is a supplement to Course D/43V but may also be attended by students unable to obtain day release.

Fee £11.00 per annum.

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.

ENGINEERING WORKS MANAGERS’ COURSE

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

Entrance Requirements

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

Course of Study

First Year

Second Year
Accountancy, Industrial Law, Management Techniques, Personnel Management.

Examination and Other Requirements

Students must pass at college examinations at the end of each year. Those who successfully complete the course will be exempt from the Certificate Examination requirements of the Institute of Works Managers and hence can qualify for Graduate Membership of that body. Students are required to apply for student membership within one month of enrolling for the Course.

Fee £11.00 per annum plus an examination fee.

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.

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

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

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 warehouse supervisor or with a firm offer.
### TRADE COURSES

**E/140**

**MOTOR MECHANICS' WORK**

*Refresher course for Motor Mechanics*

<table>
<thead>
<tr>
<th><strong>Duration of Course</strong></th>
<th>6 weeks of 5 hours each week (30 hours).</th>
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<tbody>
<tr>
<td><strong>Subjects</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Entrance Qualifications</strong></td>
<td>Senior Group Trade Certificate of the Department of Education.</td>
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**E/142A**

**MECHANICAL ENGINEERING CRAFT PRACTICE**

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

<table>
<thead>
<tr>
<th><strong>Duration of Course</strong></th>
<th>1 year—2 evenings per week (5 hours weekly).</th>
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<tr>
<td><strong>Entry Qualifications</strong></td>
<td>Junior Trade Certificate, Department of Education.</td>
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</table>

**E/141**

**FITTING AND TURNING**

*Junior and Senior Trade Certificate of the Department of Education.*

<table>
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<tr>
<th><strong>Duration of Course</strong></th>
<th>4 years—evening (5 hours weekly).</th>
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<tr>
<td><strong>Entry</strong></td>
<td>Confined to Mechanical Engineering Apprentices, 2nd &amp; 4th Year classes only available.</td>
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### 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.
Entrance Qualifications
Leaving Certificate and Preliminary Costing Certificate.
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.
Entrance Qualifications
Leaving Certificate and General Technical Knowledge.
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 mechanised book production, hand bookbinding and book repair. Particular emphasis will be laid on the advantages and/or disadvantages of the various materials and binding styles used and their alternatives which may be used in the interest of economy. The techniques and terminology of forwarding, finishing and decoration will be dealt with.

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, gluing, 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 wraparound rotary printing, also the use of modern lining up, plate mounting and registering equipment.
Fee £6·00 per annum.

E/185 LINOTYPE, INTERTYPE, AND TELLYTYPSETTING
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 £5.00 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 TECHNICIANS

The subjects of the course include: Building Construction, Geometry & Calculations, Plane & Solid Geometry, Builders' Quantities, Structural Engineering, Land Surveying & Setting Out.

Course objectives include the Department of Education Technological Examinations in Building at Elementary, Intermediate, and Advanced Stages.

Entrance Qualifications

Employment in the Construction Industry.

Fee £11.00 per annum.

TRADE COURSES

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

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) Compositors' Work.
   (vi) Letterpress Machine Work.
   (vii) Lithography & Photo Lithography.
   (viii) Bookbinding.
   (ix) Metalplate Work.
   (x) Motor Car Engineering.
   (xi) Painting and Decorating.
   (xii) Plasterers' Work.
   (xiii) Plumbing.
   (xiv) Fitters' Work.
   (xv) Turners' Work.
   (xvi) Metal Fabrication.
   (xvii) Sheet Metalwork.
2. Professional Institutions

(i) 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.
(ix) Royal Institution of Chartered Surveyors.

3. Other Bodies

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

Surveying
Royal Institution of Chartered Surveyors
N McDonagh FRICS
F Stanley ARICS
D Bailey FRICS FAI
T L Sudway ARICS

Institute of Quantity Surveyors
T Clear FIQS
B McManus ARICS AIQS

Institute of Building
K Kelly AIQB
N Cross AIQB

Construction Surveyors' Institute
J Culleton FCSI
N Shortall ACSI

Incorporated Association of Architects and Surveyors
Stanley J Coggin FIAS FIArb

Bricklaying
Denis Murray Master Builders' Association
Brick+Stonelayers' Society
Francis O'Connor
James Farrell

Carpentry
Amalgamated Society of Woodworkers
James Carroll

Joinery and Woodcutting
Gerard Wall Secretary Irish Society of Woodcutting Machinists
J G McCormack Master Builders' Association
H R Armstrong Messrs Brooks-Thomas & Co

Furniture Trades
D McCarthy O'Dea & Co Ltd
P F McGrath Irish National Union of Woodworkers
J Carroll Amalgamated Society of Woodworkers
G L Wall Irish Society of Woodcutting Machinists
J R Hunter J R Hunter & Co Ltd
W Robinson National Union of Furniture Trade Operatives
52 Peter's Hill Belfast 13 Northern Ireland
P Marrey Furniture Manufacturer 20a St Joseph's Parade Dublin 7

Plastering
Operative Plasterers' Trade Society
Gerard Doyle
T Byrne M Creedon Ltd 3 Ardee Road Dublin 6

Plumbing
Association of Master Plumbers Heating & Ventilating Engineers of Ireland
P J Clonan
J B Doherty
P J Duffy
C Jones
J N Traynor
T Harrington

Plumbing Trades' Union
M Brennan
D McKeag
W Russell
A Mullins

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

Aeronautical Engineering
P Delaney Aer Lingus Teo Dublin Airport
Lieut-Col J Teague Army Air Corps Baldonnel
Capt P G McCabe Aeronautical Officer Aviation Division Department of Transport & Power
Advisory Committees

Motor Engineering
- A McAuley BSc Assistant Mechanical Engineer (Road) CIE
- Society of Irish Motor Traders
  - Charles Warren
  - Automobile General Engineering and Mechanical Operatives' Union
    - B Leonard General Secretary
    - P Thewlis
  - Irish Engineering Industrial and Electrical Trade Union
    - J Drennan
    - M Geoghegan
    - Robert J Porter Messrs R W Archer & Co Ltd
    - Patrick Flanagan Messrs McCairns Motors Ltd
    - John Keeney LSE Motors Ltd
    - Maurice Foley Institute of the Motor Industry

Structural Steelwork
- P Dunne Irish Transport & General Workers' Union
- J D Pearson Smith & Pearson Ltd
- A Davidson Kennan & Sons
- J D Purdy J & C McLoughlin Limited
- National Engineering & Electrical Trade Union
  - J A Coffey
  - L O'Neill

Printing+Book Production
- Irish Printing Federation
  - C W Warren
  - R R Yates-Hale
  - P Hill
  - S Mooney
- Irish Master Printers' Association
  - W D Britton
  - M Kavanagh
- N C McGrath Irish Graphical Society
- B O Cearbhail BA LLB Irish Graphical Society
- E Dignam Stereotypers' Society
- J Cullen Irish Bookbinders' & Allied Trades' Union
- P. Murphy Lithographic Artists' and Process-Workers' Society
- J Jeffers Photo Engraving Group
- W R Trulock National Graphical Association

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Patrick J Carmody MA FRICS
James Good BE FRICS
Robert Hedges FiOB FIQS AMBIM
Robert Francis Lane BSc FRICS
Aidan Williams FRICS
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Assistant Head: Denis Fitzgibbon BE MSc CEng MIMechE

Head of Department: Denis Fitzgibbon BE MSc CEng MIMechE

Assistant Head: Michael O'Donnell MEconSc BE BComm CEng MIProdE MIEI

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Professor P Grootenhuis Dept of Mechanical Engineering Imperial College of Science & Technology
Professor Z S Makowski PhD DIC CEng FICE MASCE Professor of Civil Engineering University of Surrey

Technician Courses

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Dr G Scaife PhD BSc CEng

Civil Engineering

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Dr. L Stephens BE BSc PhD CEng
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School of Trades

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(Bricklaying and Masonry, Furniture, Plastering, Painting and Decorating, Vehicle Building, Vehicle Trimming and Vehicle Painting)

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Assistant Head: Vacant

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Department of Building Trades ‘A’

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Dept Assistant: Joseph Reddin Lic in Printing (C&G) AMIPpm

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Senior Librarian
Miss Moira Fennell

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