College of Technology, Bolton Street Prospectus 1969-70

City of Dublin Vocational Education Committee
1969-70 Prospectus

COLLEGE OF TECHNOLOGY

Bolton Street
Dublin

City of Dublin
Vocational Education Committee

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

School of Architecture, Surveying & Building

Department of Architecture & Town Planning
  Head: John J O'Keeffe MRIA BAch
  Assistant Head: Liam Carlin MRIA ARIBA

Department of Surveying & Building Technology
  Head: Christopher W Parfitt FRICS FIOB FRSH FIArb
  Assistant Head: Eanna de Burca FRICS
  Assistant Head: Vacant.

School of Engineering

Department of Engineering Technology
  Head: Denis Fitzgibbon BE MSc CEng MInchE
  Assistant Head: Michael O'Donnell MEconSc BE BComm CEng MIPD MIEI

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

Department of Engineering Trades
  Head: Tomas Mac Carthaigh MICert
  Assistant Head: Joseph Shiels

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

Department of Automobile Engineering
  Head: Sean Mac Guire AMIIM Manual Instructor's Certificate (Hons)
  Assistant Head: Richard Dowling MIMI

Department of Metal Fabrication
  Head: John G Bolton AIMInstW FTC (C & G)
  Assistant Head: Brendan Rooney CInstW Final C & G.
DEPARTMENTS

School of Printing and Book Production
Head of School: William J Fitzpatrick AMIOP
Asst. Head of School: Christopher McCullagh Final C & G.
Dept. Assistant: Philip O'Reilly AMIOP

School of Trades
Department of Building Trades ‘A’
(Bricklaying & Masonry, Furniture, Plastering, Painting and Decorating, Vehicle Building, Vehicle Trimming and Vehicle Painting)
Head: Robert C Grimes FTC (C & G).
Head of Furniture: Michael C Murray Hons C & G.

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

Department of Metal Fabrication
Head: John G Bolton AMinstW FTC (C & G).
Assistant Head: Brendan Rooney ClnstW Final C & G.
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 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.

Foreign Students

Applications from Foreign Students must be accompanied by a letter of recommendation from the diplomatic representative of his country in Ireland or where there is no such representative, from the Ministry of Education in his country.

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.

Change of Address

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

Change of Classes

No exchange of classes may be made without the consent of the Head of Department.

Loss of, or Damage to Personal Property

Whilst every reasonable precaution is taken, the College cannot accept responsibility for damage to or loss of students' property. Bicycles and motorised cycles brought to the College premises by students should be locked and placed in the storage spaces provided. Coats, books, etc., should be clearly marked with the owner's name.

Damage to Equipment and Premises

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

Sessional Examinations

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

Homework

Students are required to submit regularly such homework as may be prescribed by members of the teaching staff.

Laboratory Record

An Experimental Record Book is required to be maintained by each student of a Laboratory Class: an assessment shall 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.

Discipline

Any member of the teaching staff issuing a directive to any student misconducting himself on the College premises is authorised to enforce disciplinary measures, and the Principal may immediately suspend the student(s) pending a hearing of the charges by the College Council. Students must enter and leave the College buildings in a quiet and orderly manner, and must refrain from making unnecessary noise in corridors or classrooms. The full co-operation of each student is invited in order to maintain the dignity and discipline of the College.
COLLEGE REGULATIONS

General Information
Day Classes will normally be held from 9 am to 12.30 pm and 2 pm to 5 pm each week-day 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.

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.

Examinations
Closing dates and fees for examinations conducted by the Department of Education, the City and Guilds of London Institute and other bodies are displayed on the College Notice Board as they occur. Examination fees are payable in respect of sessional examinations in Diploma courses. A candidate may be permitted to sit for one supplementary examination without payment of a further fee.

Library
Students attending full-time and part-time day courses have access to the College Library. By arrangement with the Corporation of Dublin, the College Librarian can obtain from any of the public libraries in Dublin any special reference book or text book required by a student. The removal of books or journals from the Library is not permitted.

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

Grants for Higher Education
Local Authorities are empowered to make grants to eligible students to enable them to pursue courses of higher education at universities and comparable institutions. The following diploma courses offered by the College are of equivalent level to University degree courses and qualify for the grant: Architecture, Engineering, Construction Economics, Environmental Economics and Geo-Surveying. Grants may be obtainable for the Post-Graduate course in Town Planning. Application for these grants should be addressed to the Secretary of the Local Authority.

GUIDE TO COURSES

Architectural, Surveying and Building Courses (Day)
D/1. Architecture Diploma Course. Whole-time.
D/4C. Course for Building Technicians. Part-time.
D/6A. Town & Regional Planning. Whole-time.
D/6B. Town & Regional Planning. Part-time.
D/7. Health Inspectors' Diploma Course. Sandwich.

Engineering Courses (Day)
D/41. Pre-professional Course in Engineering. Whole-time.
D/42A. Diploma Course in Mechanical & Production Engineering. Whole-time.
D/42B. Mechanical Engineering Professional Course. Part-time.
D/43C. Civil Engineering Technicians' Course, Whole-time/Part-time.
D/43M. Mechanical Engineering Technicians' Course. Whole-time/Part-time.
D/43V. Heating, Ventilating & Airconditioning Technicians' Course. Whole-time/Part-time.
D/44. Automobile Engineering. Whole-time.
D/45. Aircraft Technicians' Course, Sandwich.
D/46. Mechanical Engineering Higher Technicians' Course. Sandwich.
D/47A. Mechanical Engineering Technicians' Course. Part-time.
D/47B. Mechanical Engineering Technicians' Course. Block release.

Printing and Graphic Design Courses (Day)
D/82. Training for Administrative Staff. Part-time.
D/83. Advanced Printing Education.
Technology Courses

Architectural Surveying and Building
E/3. Timber Technology.

Engineering
E/40. General Certificate in Engineering.
E/41. Graduate Courses in Engineering.
E/42. Certificate in Engineering Technicians' Course.
E/43C. Civil Engineering Technicians' Course.
E/43M. Mechanical Engineering Technicians' Course.
E/43S. Structural Engineering Technicians.
E/43V. Heating, Ventilating and Airconditioning.
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/50. Refrigeration 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/55. Engineering Administration.

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.

School of Trades

Trade Courses

Engineering
D/141. Fitting and Turning. Block release.
D/142A. Automobile Engineering. Block release.
D/142B. Automobile Engineering. Block release.
D/149. Sheet Metal.
D/150. Metal Fabrication. Part-time.

Printing
D/195. Film Make-up. Block release.

Trade Courses

Engineering

*Located in School of Trades.
Printing
E/195. Film Make-up. Part-time.

School of Trades
School of Architecture
Surveying + Building

Department of Architecture
+ Town Planning
POST-GRADUATE COURSES

D/6A. TOWN AND REGIONAL PLANNING (WHOLE-TIME)

This is a two-year full-time course, the second year may be part-time, which prepares students for the Final Examination of the Town Planning Institute and leads to a Diploma in Town and Regional Planning.

Entrance Standard Students are required to have passed or to be eligible for exemption from the Intermediate Examination of the Town Planning Institute.


Fee 1st Year £70 per annum; 2nd Year £35 per annum.

D/6B. TOWN AND REGIONAL PLANNING (PART-TIME)

This is a three-year post-graduate course to prepare students for the Final Examination of the Town Planning Institute. It involves part-time day and evening attendance.

Entrance Standard Same as for Course D/6A.

Subjects Same as for Course D/6A.

Fee £35 per annum.
DIPLOMA COURSE IN ARCHITECTURE

Entrance Standard

The preliminary educational qualifications required for enrolment are as follows:

1. (a) Matriculation of the National University of Ireland, or
   (b) Matriculation of London University, or
   (c) Matriculation of Queen's University, Belfast, or
   (d) An Examination exempting from any of the foregoing.

(A candidate claiming exemption on this head shall submit written evidence of such exemption.)

The applicant shall have passed in the following subjects:

1. Mathematics
2. English
3. French, German, Italian or Spanish.

And passed in at least two of the following subjects:

4. (a) One or more other Languages (including those listed under (3)).
   (b) Physics.
   (c) Chemistry.
   (d) Mechanics (or Applied Mathematics or Mathematical Physics).
   (e) History.
   (f) Geography.

Up to 1967, Irish will also be accepted under 3 above.

Candidates who have Matriculated on or before 1966 or who have passed a recognised qualifying examination as defined under 1. (a), (b), (c) or (d) may present an alternative set of subjects as follows:

1. Mathematics
2. English
3. Irish or another Language.
4. Latin, Classic Greek, French, Italian, Spanish, German, Russian or Portuguese. And passed in at least one of the following subjects:

   5. (a) Physics.
      (b) Chemistry.
      (c) Mechanics, or Applied Mathematics or Mathematical Physics.
      (d) History.
      (e) Geography.

Subjects of Instruction are:

First Year:

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

Second Year:

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

Third Year:

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

Fourth Year:

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

Fifth Year:

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

Note:

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

Fee £50 per annum.
This is a three-year whole-time course designed to train Architectural Technicians and leading to the Architectural Technicians' Certificate. The Final examination of the course is accepted as a qualification for Associate membership of the Institute of Architectural and Associate Technicians, and for membership after two years of practical experience. The course extends from mid-October to mid-May and during the Summer vacation students are required to gain approved practical experience in professional offices. This vacation work is optional between 1st and 2nd year and mandatory between the 2nd and 3rd year.

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

Subjects
First Year

Second Year

Third Year

Fee £30.
TECHNICAL COURSES

CERTIFICATE COURSE FOR ARCHITECTURAL TECHNICIANS

This is a three-year, three-day 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 Building Technicians, and the registration after two years of practical experience. The course extends from mid-September to mid-May and during the summer vacation students are required to gain approved practical experience in architectural offices. This period overlaps with the Easter and summer holidays.

D/3B.

DIPLOMA COURSE IN ENVIRONMENTAL ECONOMICS

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

Subjects

First Year
- Mathematics
- Science
- Logic
- Principles of Law
- Mathematical Statistics
- Principles of Accounts
- Economics
- Environment and Functions of Buildings
- Human Organisation and Environment
- Land Economics
- Management and Social Services
- Building Construction and Services
- Law of Property I
- Land Surveying and Setting Out I
- Law of Contract

Second Year
- Principles of Valuation
- Principles of Town and Country Planning
- Land Economics
- Management and Social Services
- Building Construction and Services
- Law of Property II
- Planning and Compensation Law
- Law of Obligations
- Land Surveying and Setting Out II

Third Year
- Applied Valuations I
- Urban Economics I
- Maintenance and Management of Buildings
- Law of Property II
- Planning and Compensation Law
- Law of Obligations
- Land Surveying and Setting Out II

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

Practical Experience

Students are required to gain industrial and professional experience during the extended summer vacations.

Entry Qualifications

(a) The Secondary Schools Leaving Certificate with a minimum of two subjects at honours level, or
(b) The Matriculation Certificate of a recognised University, or
(c) The General Certificate of Education with a minimum of two subjects at Advanced Level.

Fee: £50 per annum.
DIPLOMA COURSE IN CONSTRUCTION ECONOMICS

An honours level course leading to a diploma in either Building Management or Quantity Surveying. The course is of four years’ duration and designed to prepare students for Corporate Membership of the Royal Institution of Chartered Surveyors, The Institute of Building, The Building Surveys Institute, The Institute of Quantity Surveyors and the Incorporated Association of Architects and Surveyors.

**Subjects**

**First Year**
- Mathematics: Science; Logic; Principles of Law; Mathematical Statistics;
- Principles of Accounts; Economics; Environment and Functions of Buildings; Structure of the Building Industry.

**Second Year**
- Construction Site Works and Services; Building Science; Industrial Economics and Practice; Land Surveying and Setting Out;

**Third Year**
- Quantities and Economic Analysis; Principles of Management;
- Construction Site Work and Services II; Principles of Structural Design;
- Maintenance of Buildings; Land Surveying and Setting Out II;

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

**Practical Experience**

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

**Entry Qualifications**

(a) The Secondary Schools Leaving Certificate with a minimum of two subjects at honours level, or
(b) The Matriculation Certificate of a recognised University, or
(c) The General Certificate of Education with a minimum of two subjects at Advanced level.

Fee £50 per annum.

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DIPLOMA COURSE IN GEO-SURVEYING

An honours level course leading to a Diploma in either Land Surveying or Mining Surveying. The course is of four years’ duration and designed to prepare students for Associateship of the Royal Institution of Chartered Surveyors.

**Preliminary Year**
- Mathematics (Pure), Mathematics (Applied), Physics, Electronics, Hydraulics.

**First Year**
- Mathematics (Pure and Applied) I, Physics (Pure and Applied) I,
- Astronomy I, Geology I, Chain Surveying and Levelling,
- Principles of Law, Map Interpretation, Mathematical Statistics.

**Second Year**
- Mathematics (Pure and Applied) II, Physics (Pure and Applied) II,
- Geology II, Astronomy II, Trigonometrical Engineering and Mining Surveying;
- Topographical Surveying I, Cadastre I, Mining Principles,
- Law of Property I.

**Third Year**
- Trigonometrical and Geodetic Surveying I; Topographical Surveying II;
- Cadastre II; Mining Law; Principles of Valuations; Land Taxation.

**Fourth Year**
- (Land Surveying)
  - Trigonometrical and Geodetic Surveying II; Topographical Surveying III;
  - Cadastre III; Computer Applications; Administrative Law.
- (Mining Surveying)
  - Mining Surveying; Ground Movement in Mining Areas; Mineral Valuation; Mineral Leases, Covenants and Assignments;
  - Administrative Law; Computer Applications.

**Practical Experience**

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

**Entry Qualifications**

(a) The Secondary Schools Leaving Certificate with a minimum of two subjects at honours level, or
(b) The Matriculation Certificate of a recognised university, or
(c) The General Certificate of Education with a minimum of two subjects at Advanced level.

Fee £50 per annum.
TECHNOLOGICAL COURSES

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 and sponsoring of students.

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 £50 per annum.

TECHNICIAN COURSES

HIGHER BUILDING TECHNICIANS' CERTIFICATE COURSE

A pass level course leading to a Certificate in Building Technology. The course is of three years' duration and designed to prepare students for Licentiate ship of the Institute of Building and the Building Surveys' Institute and Technician Membership of the Incorporated Association of Architects and Surveyors. The course is recognised by the City & Guilds of London Institute for purposes of the award of their Higher Construction Technicians' Diploma.

Subjects

First Year
Mathematics; Science; Principles of Accounts; Structure of the Building Industry; Environment and Functions of Buildings; History of Social Change. Second Year
Construction Technology and Services I; Structures and Concrete Technology; Mechanical Plant and Equipment; Applied Mechanics (Hydraulics of Soils) I; Site Surveying and Setting Out; Specifications and Quantities; Work Study I; Site Organisation and Administration I; Communications in Industry I.

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

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

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

Fee £40 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.
This is a one-year Sandwich Course consisting of eight months' academic work commencing in mid-September, and three months' practical training in industry. Its purpose is to prepare salubrious students for entry to the Diploma Courses in Mechanical, Structural and Production Engineering.

Entrance Requirements:
(a) Leaving Certificate of the Department of Education with honours in Mathematics, English, and 2 Scions of the Leaving Certificate (Grade C Level) or
(b) The General Certificate of Education at Ordinary Level in 3 Additional Pure Mathematics, Physics, English Language, and two other subjects; or
(c) Such other qualifications as the College may deem to be appropriate.

School of Engineering

Course of Study:
The subjects studied are:
Mathematics, Applied Maths, Engineering Drawing,
Experimental Physics, Chemistry, German, Philosophy,
Practical Engineering and Textiles.

Students are required to:
(a) Take the College examination at the end of the vacation.
(b) Take the G.C.E. or Advanced Level in Mathematics, Physics.
(c) May also take the "A" Level examination in Technical Drawing and Applied Mathematics.

Membership of Professional Institution:
Students are strongly urged to apply to the appropriate Engineering Institution for Student Membership when they have satisfactorily completed this course.

For further information:
See page 14.
This is a one-year Sandwich Course consisting of eight months’ academic work commencing in mid-September, and three months’ practical training in industry. Its purpose is to prepare suitable students for entry to the Diploma Courses in Mechanical, Structural and Production Engineering.

**Entrance Requirements**

(a) Leaving Certificate of the Department of Education with honours in Mathematics, English and a Science subject (Grade C Level), or
(b) The General Certificate of Education at Ordinary Level in Additional Pure Mathematics, Physics, English Language, and two other subjects; or
(c) 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 Course (D40).

See page 34.

**Course of Study**

The subjects studied are:
- Mathematics, Applied Maths, Engineering Drawing,
- Experimental Physics, Chemistry, German, Philosophy,
- Practical Engineering and Tutorials.

Students are required to:
(a) Take the College examination at the end of the session.
(b) Take the G.C.E. at Advanced Level in Mathematics, Physics.
(c) Have a satisfactory attendance record in all subjects.
(d) Present laboratory notebooks and year’s work to the satisfaction of the examiners.
(e) Complete the vacation training programme at the end of the year.

**Membership of Professional Institutions**

Students are strongly urged to apply to the appropriate Engineering Institution for Student Membership when they have satisfactorily completed this course.

**Fee** £35 per annum.
TECHNOLOGICAL COURSES

DIPLOMA COURSE IN MECHANICAL PRODUCTION AND STRUCTURAL ENGINEERING

University level.

(1) MECHANICAL ENGINEERING

This is a three-year 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 their own arrangements with their students regarding the payment of fees, wages, books, etc. The practical training in industry is designed by the College in collaboration with the industrial sponsor.

Entrance Requirements to the First Year

(a) Pass the College Pre-Professional Examination or its equivalent.

(b) Passes at Advanced Level in the General Certificate of Education examinations in Physics and Mathematics or Applied Mathematics, and

(c) Passes in English and two other subjects at GCE Ordinary Level, or at Honours Level in the Leaving Certificate of the Department of Education, and

(d) A minimum of three months' approved practical training in industry. The attention of students who do not meet these requirements is directed to the Pre-Professional Course (D/41).

Course of Study

The subjects are as follows:

First Year


Second 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 performed.

A PDP-8 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 satisfactory attendance record in each subject they are required to attend;

(c) have presented Laboratory and Year's Work to the satisfaction of the examiners;

(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 the Diploma will be granted complete exemption from the present Parts I, II and III examinations of the Institution of Mechanical Engineers.

Fee £50 per annum.

(2) PRODUCTION ENGINEERING

This is a three-year sandwich course consisting of eight months' academic work each year commencing in mid-September, and three months' practical training in industry. The general scheme and entrance requirements are as in the Mechanical Engineering Diploma Course. In the Final Year students are required to take certain Production Options and the project will have a Production Engineering bias. A PDP-8 Digital computer is available and students are given a formal training in its use.

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 Engineering. Students holding this Diploma will be granted complete exemption from the present Parts I, II and III examinations of the Institution of Production Engineers.

Fee £50 per annum.
STRUCTURAL ENGINEERING

This is a three-year sandwich course consisting 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. In the first, second and final years, students take special options in Structures, Theory, Design and Practice and their final year project will be based on a Structural aspect. A PDP-8 Digital computer is available and students are given a formal training in its use.

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

At the completion of the course, students who have been successful in the Final Examination and who have satisfactorily completed their project will be eligible for the award of the Diploma in Structural Engineering. Students are encouraged to apply for Student Membership and later Graduate Membership of the Institution of Structural Engineers.

Fee £50 per annum.

ENGINEERING TECHNICIAN COURSE (DRAUGHTSMANSHIP)

This is a one-year whole-time course commencing each year in mid-September. Its purpose is to prepare suitable students for entry to the Pre-Professional Course in Engineering or for positions as trainee engineering technicians in industry.

Entrance Requirements

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

Course of Study

The subjects studied are: Mathematics, Applied Mathematics, English, Physics, Chemistry, Engineering Drawing, Workshop Practice, Social Science and Physical Education.

Examinations and Other Requirements

Students are required to:
(a) take the College examinations at the end of the session;
(b) take the G.C.E. examinations at "O" Level in Additional Pure Mathematics, Physics, Chemistry, Technical Drawing and English Language;
(c) have a satisfactory attendance record in all subjects;
(d) present laboratory notebooks and year's work to the satisfaction of the College authorities.

Fee £15 per annum.

TECHNOCAL COURSES

D/42B.

MECHANICAL ENGINEERING PART-TIME PROFESSIONAL COURSE

This is a six-year part-time day and evening course designed to prepare students initially for the GCE 'O' Level and 'A' Level examinations and later for the Part I and Part II examinations of the Council of Engineering Institutions and of the Institution of Engineers of Ireland. Students are required to attend on two days per week and also for some evening classes. Courses at the different stages will only be provided if there is an adequate demand for them.

Entrance Requirements

Leaving Certificate or Department of Education Elementary Stage

Technological Certificate in Mechanical Engineering.

Course of Study

First Year
Mathematics, Applied Mathematics, Physics, Chemistry, English Language and Drawing.

Second Year
Mathematics, Physics, Applied Mathematics and Drawing.

Third and Fourth Years
Mathematics, Mechanics, Fluids, Thermodynamics, Electricity, Materials Science.

Fifth and Sixth Years
A suitable selection of subjects from the CEI Part II programme; or the IEI Part II programme.

Examinations

At end of First Year—GCE "O" Level in subjects of course.
At end of Second Year—GCE "A" Level in subjects of course.
At end of Fourth Year—Part I examinations.
At end of Sixth Year—Part II examinations.

Fee £15 per annum.
### D/42C. ENGINEERING WORKS MANAGERS' COURSE

This two-year part-time day and 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 the engineering industry.

**Course of Study**

**First Year**
- Works Management, Industrial Economics, Psychology
- and Sociology, Statistics,

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

**Examination and Other Requirements**

Students must pass at college examination 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. Fee £15 per annum.

### D/43C. CIVIL ENGINEERING TECHNICIANS' COURSE

This is a one-year whole-time course followed by two years of part-time studies which prepares students for careers as technicians in different specialisations in Mechanical Engineering. There is a common first year course.

**Entrance Requirements**

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

**Course of Study**

**First Year**
- Maths, Mechanics, Applied Physics, Drawing, Workshop Technology,
- Instrument Technology, Mechanical Services and General Studies.

**Second and Third Years**

Subjects appropriate to the field of specialisation.

**Examination and Other Requirements**

At the end of First Year

Students take the Intermediate Stage of the Department of Education Engineering Technicians' Certificate (Mechanical). They may also take Part I of the 310 City & Guilds Instrumentation Technicians' Certificate Examination.

At the end of the Third Year

Students take the Final Stage of the Department of Education Engineering Technicians' Certificate Examination (Mechanical). They may also take the Part II City & Guilds 310 examination.

Fee 1st year £30 per annum; 2nd and 3rd years £15 per annum.
D/43V.

HEATING, VENTILATING + AIRCONDITIONING TECHNICIANS' COURSE

Course of Study
First Year
Second Year

Examinations and Other Requirements
At the end of the first year students take the Part I examination (No. 339) of the City & Guilds of London Institute, and the Part II at the end of the second year.
Fee £15 per annum.

D/44.

AUTOMOBILE ENGINEERING COURSE

This course is arranged to meet the examination requirements of the Institute of the Motor Industry (Inc.), the Institute of Road Transport Engineers, the Institute of Automobile Assessors, and The Society of Engineers (Inc.). Students attend the College for 32 hours per week for the period mid-September to April. The full course extends over three years. During the summer recess students are required to obtain suitable employment in the Automobile Engineering Industry.

Entrance Requirements
The entrance standard required is the Secondary Schools Leaving Certificate (including Maths and a Science subject) or an equivalent certificate.

Course of Study
First Year
English, Mathematics, Heat Engines, Mechanics, Physics, Chemistry, Drawing, Electricity, Motor Vehicle Technology, Workshop Practice, Philosophy and PT.
Second Year
As above, together with Principles of Management and Automobile Electricity.
Third Year
As above with Machine Design, Motor Trade Practice and Law and Administration.

Examination and Other Requirements
Students are required to (a) take the Section A examinations of the above institutes at the end of the first year
(b) take the section B examinations at the end of the second year,
and (c) take the Section C examinations at the end of the third year.
Fee £25 per annum.

D/45.

AIRCRAFT TECHNICIANS' COURSE

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

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

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

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 Advanced Stage Examinations in Mechanical Engineering.
(d) At the end of the fourth year—the Department of Education Higher Technological Certificates in Mechanical Engineering and the City and Guilds of London Institute Examination in Aeronautical Engineering Practice Part II. Examinations of SIAET AFRAeS Part I.
Fee £30 per annum.
This is a three-year Sandwich course which prepares students for a higher level technician qualification. The students attend the college for eight months each year commencing in October and they spend the remainder of the year on 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

Third Year

Examinations and Other Requirements
(a) Students must take a College examination at the end of each session. They may also take the appropriate examinations of the Department of Education or other bodies as directed.
(b) They are required to submit a report on their industrial training each year and also one on their final year project.
(c) They must present laboratory notebooks and year's work to the satisfaction of the College Authorities.

Fee £35 per annum.

D/47A.

This part-time day course is intended to prepare suitable students for the City & Guilds of London examinations for Mechanical Engineering Technicians (293). The course is for technicians and draughtsmen engaged in the following types of employment: Jig & Tool Design, Engineering Production, Design Draughtsmen and Plant Engineering.

Entrance Requirements
Elementary Stage of the Department of Education examinations in Mechanical Engineering or equivalent, and suitable craft background.

Course of Study
First Year
Workshop Processes and Practice, Engineering Drawing and Materials, Engineering Science, Mathematics, General Studies together with a supplementary subject to suit special requirements.

Second and Third Years
Engineering Science, Mathematics, General Studies, Applied Technology and appropriate option,

Applied Technology and one specialised subject selected from Jig and Tool Design, Product Design, Engineering Production, Mechanical Engineering Inspection, Plant Engineering and others.

Examination and Other Requirements
At the end of the first year students take the Part I examination of the City & Guilds of London Institute No. 293, Part II at the end of the third year, and Part III at the end of the fourth year;

Fee £15 per annum.
This is a two-year part-time day and evening course arranged as an
extension of the 168 and 169 courses and students prepare for the Full
Technological Certificate in Automobile Engineering. Attendance at the
College is required for one full day (7 hours) and two evenings
(6 hours) per week.

Entrance Requirements
Students are required to have completed Course 168 or 169 and to have passed either the 168 or the 169 examination.

Course of Study
The subjects studied are as follows:

First Year

Second Year

Fee £10 per annum.

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 £5 per annum except in the case of designated trades where admission is free.

Fitting and Turning
This is a four-year block release course for Mechanical Engineering Apprentices. Students are prepared for the Junior and Senior Trade examinations of the Department of Education with associated subjects. Selected students may also take the appropriate Trade Examinations of the City & Guilds (course 193). Students are expected to attend the College full time for a period of 11 weeks according to the following schedule:

Block I—29th September to 12th December, Inclusive.
Block II—15th January to 20th March, Inclusive.
Block III—13th April to 26th June, Inclusive.
Students will normally be informed when to attend the College.

Automobile Engineering
A five-year Day and Evening Course requiring attendance for one full day (7 hours) and two evenings (6 hours) per week.

Automobile Engineering
A five-year Course requiring attendance for one half-day (3 hours) and at least two evenings (6 hours) per week. By taking extra classes in specified subjects students may prepare themselves for the Motor Engineering Technological Certificate Examinations of the Department of Education.
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

HEATING FITTING

A four-year Course requiring attendance on one day per week.

D/168

MOTOR VEHICLE MECHANICS' WORK

(City & Guilds of London Institute)

A three-year Course requiring attendance on one day (7 hours) and at least 2 evenings (6 hours) per week. Students take the City & Guilds of London Institute Motor Mechanics' Work Examination at the end of the third year.

D/169

MOTOR VEHICLE ELECTRICIANS' WORK

(City & Guilds of London Institute)

A three-year Course requiring attendance on one day (7 hours) and at least 2 evenings per week. The first year of the Course is the same as Course D/168. At the end of the third year, students take the City & Guilds Motor Vehicle Electricians' examination.
TRAINING FOR ADMINISTRATIVE STAFF

The course is intended for those engaged in the Clerical and Administrative side of printing with a view to preparing them for higher administrative posts in the Industry. Consequent on the expansion of the industry a definite need exists for the training of young men, already engaged in the Industry, to fit them for promotion to administrative posts. The course occupies three years; the first two are mainly concerned with Trade Techniques, Costing and Estimating, and the third year with Administrative studies.

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

The age group for trainees is between 19 and 24 years, and the minimum educational qualification required is the Leaving Certificate.

Students at the end of the first year will be required to pass the Preliminary Technical Knowledge Examination of the British Federation of Master Printers. A Diploma will be awarded to those who, having attended the full course, have passed the examination for all subjects.

The training in this course will be supplemented by:

(a) Visits to industry.
(b) Lectures by specialists on particular aspects of the industry.

Fee £15 per annum.

ADVANCED PRINTING EDUCATION

This is a two-year block-release course of 12 weeks each year, for selected apprentices and young journeymen with the Senior Trade Certificate of the Department of Education—or its equivalent—who wish to prepare themselves for positions of responsibility in the Industry.
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 two years' instruction and the Senior Stage after a further two years. Fee £5 per annum except in the case of designated trades where admission is free.

D/183.  LETTERPRESS MACHINE PRINTING
(Block-release course)
Consecutive courses of 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 13 weeks' duration for 1st and 2nd year apprentices.

D/185.  STEREOTYPING AND ELECTROTYPING
A 4-year part-time course for first, second, third and fourth year apprentices of 4½ hours day instruction.

D/190.  COMPOSITORS' WORK
(Block release Course)
Consecutive courses of 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 Compositors' Work. An examination in each stage is set by the Department of Education at the conclusion of each course.

D/191.  BOOKBINDING
A block-release course for first, second and third year apprentices. During each course, the apprentices attending complete a stage of the Department of Education syllabi, the Junior, Intermediate and Senior Trade Certificate examinations in Bookbinding. An examination in each stage is set by the Department of Education at the conclusion of each course.

D/192.  LITHOGRAPHY AND PHOTO-LITHOGRAPHY
(Block release Course)
Consecutive courses of 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 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 MAKE-UP AND KEYBOARD
Courses of 13 weeks' duration for trainees from Industry.
The course is of four years' duration with attendance on one
whole day and three evenings each week and is designed to prepare
students for the Advanced Technological Certificate examinations of
the Department of Education and the Construction Technicians' Certificate
Examinations of the City & Guilds of London Institute
(which leads to Technician Membership of the Institute of Building).

School of Trades
The course is of four years' duration with attendance on one whole day and two evenings each week and is designed to prepare students for the Advanced Technological Certificate examinations of the Department of Education and the Construction Technicians' Certificate Examination of the City & Guilds of London Institute (which leads to Technician Membership of the Institute of Building).

<table>
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<tr>
<th>Subjects</th>
<th>First Year</th>
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<td>Building Science; Building Construction and Services; Building Calculations; Principles of Structural Design.</td>
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| Second Year          | Building Science; Building Construction and Services; Building Calculations; Safety Regulations; Principles of Structural Design. |

| Third Year           | Building Construction and Services; Measurement and Price Build-up; Land Surveying and Setting Out; Elements of Administration. |

| Fourth Year          | Building Construction and Services; Measurement and Price Build-up; Land Surveying and Setting Out; Elements of Administration. |

**Practical Experience**: Students are required to be employed in the Building Industry.

**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 £10 per annum.
These courses are for apprentices and young journeymen in the Building, Vehicle Building, Furniture and 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 £5 per annum except in the case of designated trades where admission is free.

**Building Trades**

Part-time courses involving one-day instruction per week in the practice and theory of the trade. These are normally of 4 years' duration (5 years in the case of Carpentry and Joinery, and Vehicle Building). The following courses are provided:

- 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/153. Plumbing.
School of Architecture, Surveying + Building

EVENING COURSES

Building Trades

Part-time course involving one-day instruction per week in the practical and theory of the trade. These are normally of 4 terms' duration (5 years in the case of Carpentry and Joinery, and Vehicle Building). The following courses are provided:

D/101. Bricklaying,
D/102. Planting,
D/103. Paving and Decking,
D/107. Vehicle Building,
D/108. Vehicle Trimming,
D/111. Cabinetmaking,
D/112. Upholstery,
D/113. Woodfinishing,
D/121. Carpentry and Joinery,
D/132. Woodcutting Machinery Work,
D/133. Plumbing.

TIMBER TECHNOLOGY

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

Fee £10 per annum.

School of Engineering
School of Engineering

A one-year course intended for those who wish to sit the Final Part III examinations of the Institution of Structural Engineers. Depending on demand there will be options to Level IV Concrete Design. £120 per annum.

ENGINEERING MANAGEMENT COURSE

This is a one-year non-qualifying course intended for career engineering managers. Students should have reached the Leicester Certificate standard of general education or equivalent and be actively employed in managerial or supervisory positions in the engineering industry.

Courses of Study
- Professional training and practice
- Teamwork training and practice
- Operation planning and control
- Computerisation and programming
- £120 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.

Before entry to these courses 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 Institution of Engineers of Ireland are Leaving Certificate with Honours in Mathematics or GCE Advanced Level in Mathematics and four Ordinary Level subjects including English and Physics.

Fee £10 per annum.

E/54 STRUCTURAL DESIGN

A one-year course intended for those who wish to sit the Final Design examination of the Institution of Structural Engineers. Depending on demand there will be options in Steel or Concrete Design.

Fee £10 per annum.

E/55 ENGINEERING ADMINISTRATION

A one-year course intended for those who wish to sit the Final Part III examinations of the Institution of Mechanical Engineering.

Fee £10 per annum.

E/56 ENGINEERING MANAGEMENT COURSE

This is a one-year non-qualifying course intended for trainee engineering managers. Students should have reached the Leaving Certificate standard of general education or equivalent and be suitably employed as managers or supervisors in the engineering industry.

Course of Study

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

Fee £10 per annum.
TECHNOLOGICAL COURSES

GENERAL CERTIFICATE OF EDUCATION COURSES

These are intended for students who have not reached sufficient standard for entry into Technological or Higher Level Technician Courses.

Ordinary Level
The following subjects are offered:

Advanced Level
The following subjects are offered:
Pure Mathematics, Applied Mathematics, Physics and Technical Drawing. The entrance standard is Leaving Certificate Honours or GCE Ordinary level in the appropriate subjects.

Fee per annum:
£7 10s. for four subjects.
£1 10s. for each additional subject.

TECHNICIAN COURSES

E/42.

CERTIFICATE ENGINEERING TECHNICIAN COURSE
A 5/6-year course to prepare students for the Certificate examinations in Mechanical Engineering of the Department of Education as follows:
At the end of the Second year—Elementary Stage.
At the end of the Third year—Intermediate Stage.
At the end of the Fourth year—Advanced Stage.
At the end of the Fifth/Sixth year—Higher Technological Stage.
The entrance requirements are Department of Education Intermediate Certificate or Day Group Certificate with passes in Mathematics, English and a Science Subject.
Fee £10 per annum.

E/43C.

CIVIL ENGINEERING TECHNICIANS
This is a four-year evening course to prepare students in suitable employment for the Intermediate and Final Level examinations of the Department of Education Civil Engineering Technicians' Certificate. Entrance requirements Leaving Certificate or GCE.
Fee £10 per annum.

E/43M.

MECHANICAL ENGINEERING TECHNICIANS
This is a four-year evening course to prepare students for the Part I and Part II examinations of the City & Guilds of London—Mechanical Engineering Technicians (293). It is a supplement to Course D/47A but may also be attended by students unable to obtain day release.
Fee £10 per annum.

E/43S.

STRUCTURAL ENGINEERING DESIGN/DETAILING
This is a two-year non-qualifying course intended for those who have experience in structural drawing offices and who require further design and detailing instruction.
The entrance requirement is Leaving Certificate or equivalent.
Fee £10 per annum.
TECHNOLOGICAL AND TECHNICIAN COURSES

E/43V.

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 (339). It is a supplement to Course D/43V but may also be attended by students unable to obtain day release.
Fee £10 per annum.

E/46.

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 £10 per annum.

E/47.

DIESEL MAINTENANCE
This is a two-year course providing instruction in the theory and practice of diesel maintenance.
Fee £7 10s. 0d. per annum.

E/53.

JIG AND TOOL DESIGN
This one-year course is intended for those who have completed the City & Guilds 293 Technician Course, or those who wish to select Jig & Tool Design as an option in the Part III examination. Students who have completed the Department of Education Senior Trade examinations in Fitting and Turning or the City & Guilds Part II 193 Craft Practice and are employed in Jig & Tool Work may also apply for entry to the course.
Fee £10 per annum.

E/49.

TECHNICIAN COURSES

AUTOMOBILE ENGINEERING COURSE

This is a five-year evening course requiring attendance at the College for three evenings (9 hours) each week (26 weeks each year). The course prepares students for the Associate Membership Examinations of the Institute of the Motor Industry (Inc.), the Institute of Road Transport Engineers and the Institute of Automobile Assessors. Section A of the Associate Membership Examination of the above Institutes is taken at the end of the second year. At this stage students specialise and take relevant subjects to prepare themselves for the Section B examinations of the above Institutes and in addition students may prepare themselves for the IMI "Fardic" Scheme Examinations. The Section B examinations are usually taken at the end of the fourth year and Section C examinations at the end of the fifth year.
Entrance Requirements
Secondary Leaving Certificate or equivalent certificate.
Fee £10 per annum.

E/50.

REFRIGERATION ENGINEERING TECHNICIANS
This is a two-year course for Technicians employed in the refrigeration engineering industry. Suitable students are prepared for the City & Guilds of London Institute examinations in Science and Technology of Refrigeration No. 73. The subjects of instruction are: Basic Thermodynamics, Refrigeration Processes and Refrigeration Machinery.
Fee £10 per annum.

E/51.

INSTRUMENTATION AND CONTROL
This is a three-year course for students employed in Instrumentation who have reached the Intermediate Technological Standard in Mechanical Engineering. Students are prepared for the City & Guilds Part I and Part II examination in Instrumentation and Control—310.
Fee £10 per annum.

E/52.

PLUMBING DESIGN & TECHNOLOGY
This is a two-year course for students who have a good detailed craft knowledge to prepare them for posts as Plumbing Designers, Estimators or Supervisors. Entrance qualifications are the Senior Stage Certificate (Plumbing) of the Department of Education or 1st Class Pass in Plumbers Work (Final Stage) of the City & Guilds of London Institute or equivalent.
Fee £10 per annum.
The following evening courses are provided for Engineering Trade apprentices.

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

Fee £4 10s. 0d. per annum.
TECHNICIAN COURSES

E/81.

PRINTING TECHNOLOGY

This is a three-year evening course requiring attendance at the College for three evenings (9 hours) weekly per session. The course is aimed at preparing students for the Full Technological Certificate of the City & Guilds of London Institute. Fee £7 10s. 0d. 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 2-year course 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 Preliminary Technical Knowledge examination of the British Federation of Master Printers. It is also necessary to have passed the Preliminary 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 £5 per annum.

E/84A.

COSTING (PRINTING)

A two-year course designed to prepare students for the examination of the British Federation of Master Printers.

Fee £5 per annum.

E/84B.

ESTIMATING (PRINTING)

A two-year course designed to prepare students for the examination of the British Federation of Master Printers.

Fee £5 per annum.
E/85.

TECHNICIAN COURSES

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.

Fee £5 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 £5 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.

E/90.

DIPLOMA COURSE IN ADVERTISING

The subjects: Printing and Reproduction Methods, Copywriting, Design and Layout of the above course are now being taken in the School of Printing.

TRADE COURSES

Fee £4 10s. 0d. per annum.

Evening Courses for apprentices and journeymen are provided in Book Finishing and Book Edge Gilding, Monotype Casting and Monotype Keyboard, Linotype and Intertype Operating and Teletypesetting, and Film Make-up Techniques for Phototypesetting. Students are prepared for appropriate examinations conducted by the Department of Education and the City & Guilds of London Institute.
Basic Diploma Course in Advertising

The part of the above course of the College of Commerce, battling, dealing with Printing and Reproduction methods, is now being taught in the School of Printing.

Diploma Course in Advertising

The subject: Painting and Reproduction Methods, Copywriting. Design and Layout of advertisements are now being taught in the School of Printing.

School of Trades

The School's three-year course provides training for the horticulture industry and is designed to prepare students for the Horticultural Technological Certificate examination of the Department of Agriculture.

First Year
Building Science, Building Construction and Services, Building Calculations.

Second Year
Building Science, Building Construction and Services, Building Calculations, Safety Regulations.

Third Year
Building Construction and Services, Measuring and Planning, Land Surveying and Setting Out.

Fourth Year
Building Construction and Services, Measuring and Planning, Land Surveying and Setting Out.

Students are required to be employed in the Building Industry.
The course is of four years' duration with attendance on three evenings of each week and is designed to prepare students for the Advanced Technological Certificate examinations of the Department of Education.

<table>
<thead>
<tr>
<th>Subjects</th>
<th>First Year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Building Science; Building Construction and Services; Building Calculations.</td>
</tr>
<tr>
<td>Second Year</td>
<td>Building Science; Building Construction and Services; Building Calculations; Safety Regulations.</td>
</tr>
<tr>
<td>Third Year</td>
<td>Building Construction and Services; Measurement and Price Build-up; Land Surveying and Setting Out.</td>
</tr>
<tr>
<td>Fourth Year</td>
<td>Building Construction and Services; Measurement and Price Build-up; Land Surveying and Setting Out.</td>
</tr>
</tbody>
</table>

Practical Experience

Students are required to be employed in the Building Industry.

Fee £10 per annum.
Fee £4 10s. Od. per annum.

Evening Courses for apprentices are provided in the Building, Vehicle Building, Furniture and Engineering Trades and Brassfinishing.

Students are prepared for appropriate examinations conducted by the Department of Education and the City & Guilds of London Institute.

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.

Examinations

External

The courses prepare students for the Examinations of the following bodies:

1. Department of Education

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

   (b) Technician Certificate Examinations in Engineering

      (c) Trade Certificate Examinations in:
         (i) Bricklaying and Masonry.
         (ii) Brass Finishing.
         (iii) Cabinetmaking.
         (iv) Carpentry and Joinery.
         (v) Composers' Work.
         (vi) Letterpress Machine Work.
         (vii) Lithography & Photo Lithography.
         (viii) Bookbinding.
         (ix) Metalplate Work.
         (x) Motor Car Engineering.
         (xi) Painting and Decorating.
         (xii) Plasterers' Work.
         (xiii) Plumbing.
         (xiv) Fitters' Work.
         (xv) Turners' Work.
2. Professional Institutions
   (i) Building Surveyors' Institute.
   (ii) Council of the Engineering Institutions.
   (iii) Institution of Engineers of Ireland.
   (iv) Institution of Structural Engineers.
   (v) The Institute of Building.
   (vi) Institute of Quantity Surveyors.
   (vii) Royal Institute of Architects of Ireland.
   (viii) Royal Institution of Chartered Surveyors.
   (ix) Town Planning Institute.

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).

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**

| Architecture | F B Meehan MRAI BArch  
|             | H S Robson MSc BArch MRAI ARIBA  
|             | D O'Toole FRIA AMTPI  |

| Architectural Technicians | Denis J McGloughlin MIAAT  
|                          | John M McCarthy MSAAT MIAAT  |

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

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

| Heating and Ventilating Engineering | Eoin O Cionna BE MICEI AMIEE MHIHE MASHRAE MConsEl Hon Secretary The Association of Consulting Engineers of Ireland  
|                                   | Noel Traynor AMIHE Hon Secretary The Association of Master Plumbers Heating & Ventilating Engineers of Ireland  
|                                   | Seamus Homan AMIHE Design Engineer Varming & Mulcahy Consulting Engineers  
|                                   | Eamonn O'Brien c/o Robt Jacob Consulting Engineers  
|                                   | Reginald Keating GIHEE Hon Secretary The Association of Design Engineers & Draughtsmen  |
### ADVISORY COMMITTEES

#### Surveying + Building Technology
- Royal Institution of Chartered Surveyors
  - G. M. Costello FRICS
  - D. Bailey FRICS FIAI
  - I. French ARICS
  - H. Kirby ARICS
  - T. McLoughlin ARICS
  - J. Good BE FRICS
  - N. McDonagh FRICS
  - D. T. McCarthy FRICS
  - A. Reddy FRICS
  - H. C. Tierney FRICS
  - T. L. Sudway ARICS
- Institute of Quantity Surveyors
  - B. V. Boyle FIQS
  - T. Clear FIQS
  - J. Pettit AIQS
  - N. Power-Smith AIQS
- Institute of Building
  - J. Jennings FIoB
  - J. McCormack FIoB
  - D. McIlvenna FIoB
  - L. Thompson BAI MICE FIoB
- Building Surveyors' Institute
  - John J. Barrett PPBSI AIoB
  - J. Cullen FBMSI
  - J. Gilmore Byrne FBMSI
  - N. Shortall ABSI
- Incorporated Association of Architects and Surveyors
  - Stanley J. Coggin FIAS FIArb

#### Bricklaying
- Denis Murray Master Builders' Association
- Bricklayers' Society
- Francis O'Connor
- James Farrell

#### Carpentry and Joinery and Woodcutting Machinists' Work
- Amalgamated Society of Woodworkers
- James Carroll
- Irish National Union of Woodworkers
  - William Joyce
  - C. Clarke
  - 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
  - D. Bowden J. V. Bowden & Co Ltd
  - 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
  - Donal O'Reilly
  - T. Byrne M. Creedon Ltd 3 Ardee Road Dublin 6

#### Plumbing
- Association of Master Plumbers Heating & Ventilating Engineers of Ireland
  - P. J. Cloran
  - J. B. Doherty
  - P. J. Duffy
  - C. Jones
  - C. B. Sexton
  - J. N. Traynor
- Plumbing Trades' Union
  - P. Ferris
  - A. Harmon
  - T. King
  - J. Lahiff
  - T. Russell

#### 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 c/o R. Callow & Sons Ltd Westland Row Dublin 2

#### 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
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 McCaurns Motors Ltd
John Keeney LSE Motors Ltd
Maurice Foley Institute of the Motor Industry

Structural Steelwork
L O'Neill National Engineering Union 33 Gardiner's Place
P Dunne Irish Transport & General Workers' Union
J D Pearson Smith & Pearson Ltd
A Davidson Kennan & Sons
D Purdy Smith & Pearson Ltd
Irish Engineering Industrial & Electrical Trade Union
J A Coffey

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
Irish Graphical Society
N C McGrath
B O Cearbhail BA LLB
E Dignam Stereotypers' Society
J Cullen Irish Bookbinders' & Allied Trades' Union
A Kavanagh Lithographic Artists' and Process-Workers' Society
J Jeffers Photo Engraving Group
W R Trulock Amalgamated Society of Lithographic Printers

ADVISORY COMMITTEES

School of Architecture, Surveying + Building
Head of School: Kevin Fox BArch MRIAI

ACADEMIC STAFF

Department of Architecture + Town Planning
Head of Department: John J O'Keeffe MRIAI BArch
Assistant Head: Liam Carlin MRIAI ARBA

Whole-time Staff
Albert J Brady BArch MRIAI
Michael Clifton BE AMICEI
Peter Doyle BArch MRIAI ARBA
William Gilligan BArch MRIAI
Maurice Hogan MRIAI
Anthony Johnson BArch MRIAI ARBA
Michael O'Sullivan DipArch MRIAI
Patrick Shaffrey BArch DipTP AMTP ARBA

Part-time Staff
D Bannister
M Brogan ARBA MRIAI
Uns Craddock ANCA
C J Ferguson MRIAI ARBA
R J Fowler DipArch MRIAI
Leonard Gallagher BAgSc
J B Gilroy DipArch MRIAI
James J Harrington BE CEng AMIStructE AMICEI
Fergus A Hogan DipArch MRIAI
Derek Kilfeather
James F Knaggs
Ciaran Lennon
Plaras Mac Cionnaith BArch MRIAI
Ray McDonnell BArch MRIAI
Leo Mansfield DipArch MRIAI
Christopher Morris
T O'Beirne
W J N O'Brien
Ciaran O'Carroll BArch MRIAI
D O Cineide
S O'Connor
John O'Donnell
G W O'Hara
Michael Phillips BArch MRIAI
Martin Reynolds DipArch MRIAI
Martin Ridge DipArch MRIAI
John C Scannell

Extern Examiners
P B D Groves FRIBA
O Richardson BArch FRIBA
## ACADEMIC STAFF

### Department of Surveying

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>Head of Department</td>
<td>Christopher W Parfitt FRICS FIOP FRSH FIARB</td>
</tr>
<tr>
<td>Assistant Head</td>
<td>Eanna de Burca FRICS</td>
</tr>
<tr>
<td>Assistant Head (Urban Economics)</td>
<td>Vacant</td>
</tr>
</tbody>
</table>

### Whole-time Staff

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>Thomas Carroll</td>
<td>MHIA DipHl (Seconded from the Department of Health)</td>
</tr>
<tr>
<td>Seamus Cunningham</td>
<td>M(Hons) ABSI</td>
</tr>
<tr>
<td>J A Dixon</td>
<td>BSc FRICS</td>
</tr>
<tr>
<td>Daniel Kelly</td>
<td>BE MEI</td>
</tr>
<tr>
<td>Sean Loftus Barrister-at-Law</td>
<td></td>
</tr>
<tr>
<td>Colm Mac Cartaigh</td>
<td>BComm MEconSc</td>
</tr>
<tr>
<td>Patrick McGuinness</td>
<td>FIOP</td>
</tr>
<tr>
<td>Kevin Murnane</td>
<td>ARIBA MRIAi</td>
</tr>
<tr>
<td>Patrick Nugent</td>
<td>FRICS</td>
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### Part-time Staff

<table>
<thead>
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<tbody>
<tr>
<td>Hira L Balsya</td>
<td>MSc</td>
</tr>
<tr>
<td>Michael Bannon</td>
<td>MA</td>
</tr>
<tr>
<td>Ruth Bradley</td>
<td>BScSc</td>
</tr>
<tr>
<td>Joseph K Coyne</td>
<td>BE PEng MASCE AFinstPet AMICEI</td>
</tr>
<tr>
<td>Dr Ronald Cox</td>
<td>MA MAI PhD AMICE AMICEI</td>
</tr>
<tr>
<td>James Daly</td>
<td>BE</td>
</tr>
<tr>
<td>Michael Davitt</td>
<td>ABSI</td>
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<tr>
<td>Anthony Fitzpatrick</td>
<td>BComm</td>
</tr>
<tr>
<td>John Fury</td>
<td>BComm DipHS DipPA MHIA AMPHIA</td>
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<tr>
<td>Paul Good</td>
<td>ARICS</td>
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<tr>
<td>Dr Derek Goodhue</td>
<td>BSc</td>
</tr>
<tr>
<td>Cornelius Healy</td>
<td>MHIA</td>
</tr>
<tr>
<td>Seamus Homan</td>
<td>MlHVE</td>
</tr>
<tr>
<td>Liam Jones</td>
<td>MBA BComm</td>
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<tr>
<td>Lindsay Johnson</td>
<td>BArch</td>
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<tr>
<td>Anthony Kennedy</td>
<td>Barrister-at-law</td>
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<td>Anthony J Knott</td>
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<td>Michael Maguire</td>
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<td>S P Manning</td>
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<td>Sean McDermott</td>
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<td>Michael McNulty</td>
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<tr>
<td>F Richard Morrison</td>
<td>BSc FRICS</td>
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<tr>
<td>Raymond Mulvihill</td>
<td>BA BScSc</td>
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<tr>
<td>Gerard Murphy</td>
<td>MRSH</td>
</tr>
<tr>
<td>Mary J Neylon</td>
<td>Barrister-at-Law DipLibTRN</td>
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<tr>
<td>Michael A Nugent</td>
<td>MHIA DipHl</td>
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<tr>
<td>Mannix O'Boyle</td>
<td>MRCVS</td>
</tr>
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### Visiting Lecturers

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>John MacD Broadhead</td>
<td>MA FRICS</td>
</tr>
<tr>
<td>Noel J Dooley</td>
<td>FRICS FIArb</td>
</tr>
<tr>
<td>J H McFarlane</td>
<td>FAI</td>
</tr>
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### External Examiners

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Gerald Louis Burke</td>
<td>MC MSc FRICS FAI AMTPi</td>
</tr>
<tr>
<td>James Good</td>
<td>BE FRICS</td>
</tr>
<tr>
<td>Robert Francis Lane</td>
<td>BSc FRICS</td>
</tr>
<tr>
<td>Aidan Williams</td>
<td>FRICS</td>
</tr>
</tbody>
</table>
ACADEMIC STAFF

School of Engineering

Head of School: John D Barry PhD MSc BE CEng FI MechE FIEI

Assistant Head: Denis Fitzgibbon BE MSc CEng MIMechE

Department of
Engineering
Technology

Head of Department: Denis Fitzgibbon BE MSc CEng MIMechE
Assistant Head: Michael O'Donnell MEconSc BE BComm CEng MIProD E MIEI

Whole-time Staff
Liam Archer GIMechE
John A Butler DipEng AMInstF CEng MIMechE
John Cash BE MS
Michael Clifton BE AMICEI
Neil Gillespie GradlMechE GIHVE
Oliver McNulty MIEI ARTCS GIStuctE
John McQuillan CEng MIMechE
Donal Murphy GradlED
Henry J O'Neill CEng FI ProdE
John Peelo BE
Matthew Russell GI ProdE G IMechE MInstBE
Henry F Taylor CEng FI MechE

Part-time Staff
Edward Tunde Boardman DipEng GIMechE
John B Broderick MSc
M J Carew CEng MISTructE
D Collins DipEng
Albert F Cunnane BE GIMechE MIWSI
James Daly BE AMICE MIEI
Richard Daly
Edward P Dunne CEng MIMechE MIEI
Patrick J Dunphy DipEng GIMechE
Vincent Duffy
Martin J Egan BSc
K Eng MA MWeld
Mel Gilligan DipEng
T E Glynn
Niall Greene BComm
R Grimason AMIHVE
John Gribben HonsMI
James J Harrington BE CEng MISTructE
Lewis Healy BE
Seamus J Homan AMIHVE
Cathal Hurley BE PhD
Reginald Keating AMIHVE
Eric J Kinsella AMIEE
A J Knott AMIHVE
J F Lawless
Padraig MacLoighlin BE
Thomas F S Malone BE BComm
Daniel Mooney

Joseph Murphy
Michael Murphy DipEng MSc
W J N O'Brien DipEng
John O'Connor CEng MStructE
A O Dunlaing BE MEngSc
Richard F O’Leary
James Roche
Brian Torpey CEng MStructE
Dermot Walls BE
Arthur R Ward ACA
Andrew Whelan ME AMICE MIEI

External Lecturers & Examiners
Professor F Koenigsberger DSc FI MechE MemASME FIProdE Professor of Machine Tool Engineering University of Manchester
Professor Ford DSc(Eng) PhD FI MechE MICE FRSA Head of the Department of Mechanical Engineering and Professor of Applied Mechanics Imperial College of Science and Technology London

Department of
Science
Mathematics

Head of Department: James A Nunan BSc HDipEd
Assistant Head: Gerard Lawlor MSc

Whole-time Staff
Sean J Cawley BSc PhD
Elizabeth T Clancy MSc
Thomas Conway BSc HDipEd
Jeremiah T Cotter BSc
John J Doherty BA
William McCarthy BA BComm
Matthew L Niall MSc BComm
Marguerita O'Kelly BA BSocSc DipSocSc HDipEd
Louis R. Purton BSc
Michael Swords BSc
Mary Tully MSc HDipEd

Part-time Staff
John B Broderick MSc
Martin J Egan
James J Gahan
Declan Hoare BSc
Denis J McCarthy
Thomas McKevitt
Brian Nolan
William J O'Doherty BA HDipEd
Anthony Penny
Peter Ward
Brian P Woods
### ACADEMIC STAFF

#### Department of Engineering Trades

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head of Department</td>
<td>Tomas MacCartaigh M.Cert</td>
</tr>
<tr>
<td>Assistant Head</td>
<td>Joseph Shiels</td>
</tr>
</tbody>
</table>

#### Whole-time Staff

- Desmond Aungier
- Denis McGrath
- James McKenna
- Charles B O'Brien Grad Plant E
- H A O'Neill C.Eng FIProd E

#### Part-time Staff

- Gerald J Birney
- Peter Deane
- Charles Dowdall
- Howard J Greer
- John Kearney
- John Kearns
- William Kennedy
- James F Lawless
- Daniel M Magee
- Timothy P Murphy MIMar E
- Patrick O'Doherty
- Sean O'Farrell
- Andrew O' Hanlon
- James Roche

#### Department of Aeronautical Engineering

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
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<tbody>
<tr>
<td>Head of Department</td>
<td>Thomas McInerney AMSLAE ACD &amp; X Licences</td>
</tr>
<tr>
<td>Assistant Head</td>
<td>Michael Forde A &amp; C Licences</td>
</tr>
</tbody>
</table>

#### Whole-time Staff

- William J Brazil

#### Part-time Staff

- Gerard H Brannigan
- James Coleman X Licence PMG
- Eamonn K Dempsey
- James Donohoe AME
- Alberic Doody AME
- Patrick Hanley
- Thomas Higgins AME
- James S Hogan AME
- John A Hughes
- James F Matthews
- Patrick M Murphy LAE
- Thomas Murphy
- Donal O'Meara
- Andrew O'Neill AME

### ACADEMIC STAFF

#### Department of Automobile Engineering

<table>
<thead>
<tr>
<th>Position</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Head of Department</td>
<td>John Guirke AMIMI Manual Instructor's Certificate (Honours)</td>
</tr>
<tr>
<td>Assistant Head</td>
<td>Richard Dowling MIMI</td>
</tr>
</tbody>
</table>

#### Whole-time Staff

- Timothy Giblin
- Alan Harbron SIMT TechDip
- T J Kernan FTC (C&G)
- Michael Kelly SIMT TechDip MIMH
- Arthur McDermott AMIMI MIWM DipSocSc
- James McGauran SIMT TechDip
- Paul Purcell SIMT TechDip

#### Part-time Staff

- Fintan Byrne GradlMI
- Thomas Carroll AMIMI
- Michael J Chester AMIMar E C.Eng
- Paul G Colligan ACA FCWA
- William Costello DipEng GIMechE
- David J Cunningham
- William J Doherty
- Edward P Dunne CEng AMIMechE AMICEI
- Stephen Dunne
- John A Durney
- John C Fitzpatrick
- Thomas A Flood
- John Gribben
- Peter T Hynes
- Reg Keating GIVHE
- Brendan A Kelly GradlMI
- Martin Noel Kennedy BE AMIME
- Thomas Leddy
- Michael Long
- Sean J Loughran
- Bernard E McGee
- Donal McGonell GradlMechE
- John McNamara
- Desmond Maguire
- Stephen Mason
ACADEMIC STAFF

Department of Building Trades "A"

Head of Department: Robert C Grimes FTC (C & G)
Head of Furniture Division: Michael C Murray Hons C & G

Whole-time Staff
Charles Costello
Frederick Hosford
Joseph Lawlor
Gerard O'Toole

Part-time Staff
Christopher Byrne
James Farrell
James Fitzpatrick
M F Gavigan
John Kenny
Patrick Lawlor
Sean Mac Conaill
John McCormick
Seamus S O'Dea MA HDip
P O' Hanlon
John P Stephens
Valentine Ryan

Department of Building Trades "B"

Head of Department: Thomas Bridgeman ABICC FTC (C & G)
Assistant Head: Joseph P O'Byrne FTC (C & G) LIOB

Whole-time Staff
Michael Bridgeman
Thomas Byrne
Andrew Dunne FTC (C & G)
Brendan Dunne ABldg Sl LIOB FTC C & G
Aidan Halpin ABICC Final C & G
Patrick Kelly Final C & G
Thomas Kiernan FTC (C & G)
Michael McDonnell
John McGuirk

Department of Metal Fabrication

As in School of Engineering.
ACADEMIC STAFF

School of Printing + Book Production

Head of School: William J Fitzpatrick AMIOP
Assistant Head: Christopher McCullagh Final C & G
Dept Assistant (Letterpress Machine): Philip O'Reilly AMIOP

Whole-time Staff
John Bennett FTC (C & G) FTC (Design)
Patrick Daly FTC (C & G)
John M Foley FTC (C & G)
Joseph B Kennedy FTC (C & G)
Matthew Niall MSc BComm
Proinsias O hEifearnáin BA FTC (C & G)
Brendan Quinn Final C & G
Joseph Reddin FTC (C & G) AMI PtgM
Kenneth Richards Final C & G
Robert Sharpe Final C & G

Part-time Staff
Bernard Culligan
Ciaran Donaghy BA BComm
T Halpin BA
P Horan
Bartholomew Hempton
James P Keane
Patrick Corbally
G A Lynch
William Kelly
Michael John Kennedy
Stanley McDonald
Rex MacDonnell MIAPI
B McKeown
Allan McLeod-Martins ACCS
B McCarthy
Aidan Ryan
A Sadlier MA
T J Farrelly-Smith
P Smyth
Shamus Wade MIAPI AGMA
Kevin B Walsh
J Murphy
E Horan
C Andrews

PHYSICAL EDUCATION

Michael C Doogan

LIBRARY

Librarian
Donal J Kennedy

ACADEMIC STAFF

General

SPIRITUAL DIRECTORS

Senior Chaplain
Rev John McAvoy SJ
Rev Edward McAsey SJ
Rev Dermot McKenna SJ
Rev Gerald P Nolan SJ
Rev Kieran Barry-Ryan SJ
Rev Brian Scallan SJ
Rev Bernard OFM
Rev Columba OFM

School of Trades
### INDEX TO COURSES

<table>
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