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College of Technology, Bolton Street Prospectus 1971-72

City of Dublin Vocational Education Committee

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COLLEGE COUNCIL

Chairman
Mr Patrick Donegan 121 Shanard Road Dublin 9

Dr John D Barry Deputy Principal
Mr Thomas Bridgeman "Treetops" Swords Road Dublin 9
Mr J B Colgan 50 Cedarmount Road Mount Merrion Co Dublin
Mr A Harkin 52 Farney Park Dublin 4
Mr Noel Kidney SRC Representative
Mr Sean MacGuire 3 Kincora Grove Dublin 3
Mr D F O'Dwyer Principal
Mr S O'Hanlon PC 1 Turlough Gardens Dublin 3
Rt Rev Mgr J O'Regan STL PP Sandymount Dublin 4
Mr Jeremiah P Sheehan BE MSc Chief Executive Officer City of Dublin
Vocational Education Committee
Mr Michael Scott FRIBA 19 Merrion Square Dublin 2
Mr Michael Swords 46 Hazel Avenue Stillorgan Co Dublin
STAFF

Principal
Donal F O'Dwyer BArch FRIAI

Deputy-Principal
John D Barry PhD MSc BE CEng FI MechE FIEI

School of Architecture, Surveying & Building
Head of School
Kevin Fox BArch MRIAI

School of Engineering
Head of School
Dr John D Barry
Assistant Head
Denis Fitzgibbon MSc BE CEng MIMechE

School of Printing and Book Production
Head of School
Philip O'Reilly MIOP
Assistant Head
Vacant

School of Trades
Head of School
J B Hickey BA

Senior Chaplain
Rev Dermot McKenna SJ

Secretary/Registrar
Andrew A Farrell ACPA

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

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: Christopher W Parfitt FRICS FIOB FRSH FI Arb
Assistant Head: Eanna de Burca FRICS
Assistant Head: Laurence Liddle MA FRICS
(Urban Economics)

School of Engineering
Department of Engineering Technology
Head: Denis Fitzgibbon BE MSc CEng MIMechE
Assistant Head: Michael O'Donnell MEconSc BE BComm CEng MIPred MIEI

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

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

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

Department of Automobile Engineering
Head: Sean Mac Giure 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 and Book Production
Head of School: Philip O'Reilly MIOP
Asst. Head of School: Vacant
Dept. Assistant (L'press Machine): Vacant

School of Trades
Department of Building Trades 'A'
(Bricklaying & Masonry, Furniture, Plastering, Painting and Decorating, Vehicle Building, Vehicle Trimming and Vehicle Painting)
Head: Vacant
Head of Furniture Division: 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 MWeldl FTC (C & G)
Assistant Head: Brendan Rooney AWeldl Final C & G

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

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

Part-time:
Courses
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 as 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 is in the opinion of the College justifies exclusion. Three successive absences in any one class subject may lead to suspension from the complete course unless the Principal is informed in writing of the reason.

Changes in Class:
The College may change any or all of the syllabus, the day and time of meeting of any class and may cancel classes where the enrolment or attendance is considered inadequate. If for some urgent reason a teacher cannot attend or arrange for a deputy, classes may be cancelled without notice.

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

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. An Examination fee of £5.00 is payable in respect of sessional examinations in Diploma courses. Closing date for receipt of Diploma Examination fees is 31st January 1972. In exceptional circumstances and at the discretion of the College Examination Board a candidate may be allowed to enter for the Diploma Examination after the closing date, subject to the additional payment of a late fee of £5.00. A candidate may be permitted to sit for one supplementary examination without payment of a further fee.

Fees

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

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. Application for these grants should be addressed to the Secretary of the Local Authority. Grants may also be obtainable for the Post-Graduate course in Town Planning.

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

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 the public libraries in Dublin special reference or text books.

Refectory

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

GENERAL INFORMATION & REGULATIONS—Contd.

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. 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 on demand be paid to the College Authority by the student responsible for such damage.

Homework

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

Laboratory Record

An Experimental Record Book is required to 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

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 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/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
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/42C. Engineering Works Managers’ Course. Part-time.
D/43C. Civil Engineering Technicians’ Course, Whole-time/Part-time.
D/43N. Instrumentation Technicians’ Course.
D/43M. Mechanical Engineering Technicians’ Course, Whole-time/Part-time.
D/43V. 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/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.

GUIDE TO COURSES—Contd.

Technological
+ Technician
Courses
(Evening)

Architecture, Surveying + Building
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/55. Engineering Administration.
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.
GUIDE TO COURSES—Contd.

Trade Courses (Day)

Engineering
D/126, Automobile Engineering, Block release.
D/128, Automobile Engineering, Part-time.
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/132, Motor Mechanics, 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/143, Gas and Electric Welding, Part-time.
D/149, Sheet Metal.
D/150, Metal Fabrication, Part-time.
D/151, Heating Fitting, Part-time.

Printing
D/183, Letterpress Machine Work, Block release.
D/184, Photo Processes for Graphic Reproduction, Block release.
D/188, Stereotyping and Electrotyping, Part-time.
D/190, Composers’ Work, Block Release.
D/191, Bookbinding and Warehouse Work, Block Release.
D/192, Lithography and Photo-Lithography, Block Release.
D/195, Film Make-up, Block release.

School of Trades
D/101, Bricklaying, Part-time.
D/102, Plastering, Part-time.
D/105, Painting and Decorating, Part-time.
D/107, Vehicle Building, Part-time.
D/111, Cabinet Making, Part-time.
D/112, Upholstery, Part-time.
D/113, Woodfinishing, Part-time.
D/121, Carpentry & Joinery, Part-time.
D/122, Woodcutting Machinists’ Work, Part-time.
D/153, Plumbing, Part-time.

GUIDE TO COURSES—Contd.

Engineering
E/133, Motor Vehicle Body Repair.
E/134, Compression Ignition Engine Maintenance.
E/136, Fork Lift Truck Maintenance.
E/137, Warehouse Supervisors’ Course.
E/138, Fork Lift Truck Operators’ Course.
E/141, Fitting and Turning, Part-time.
E/142, Motor Mechanics’ Work (Advanced), Part-time.
E/143, Gas and Electric Welding, Part-time.
E/144, Patternmaking, Part-time.
E/149, Metal Plate Work, Part-time.
E/151, Heating Engineering Fitters, Part-time.

Printing
E/185, Linotype, Intertype and Teletypesetting, Part-time.
E/186, Monotype Casting, Part-time.
E/195, Film Make-up, Part-time.

School of Trades
E/101, Bricklaying, Part-time.
E/105, Painting & Decorating, Part-time.
E/107, Vehicle Building, Part-time.
E/112, Upholstery, Part-time.
E/121, Carpentry & Joinery, Part-time.
E/122, Woodcutting Machinists’ Work, Part-time.
E/153, Plumbing, Part-time.
The School provides courses at technological and technician levels for occupations within the building industry, and brings together in the process of education those who will work together professionally in later careers. The Architect is responsible for the design and supervision of building projects while the Construction Economist, according to his specialisation, may be concerned, as quantity surveyor, with projects, economics or with the management of the building operation. The Environmental Economist has a similar role in the wider range of urban development and planning, or in estate management. The Geo-Surveyor is concerned with the land itself, its nature, its resources, and the measurement and definition of these. Employment opportunities in all cases exist in a range from personal professional consultancy to employment in architectural and building organisations and in State or municipal departments.
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 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.

TECHNOLOGICAL AND TECHNICIAN COURSES

D/1A. DIPLOMA COURSE IN ARCHITECTURE

This is a five-year whole-time course leading to the Diploma in Architecture which gives exemption from parts A & B of the Final Examinations of the Royal Institute of the Architects of Ireland. Graduates from the course become eligible for membership of the RIAI after they have completed the requirements relating to practical experience and professional practice.

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

Entrance Standard The preliminary educational qualifications required for enrolment are as follows:

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.

And passed in at least three of the following subjects:

3. (a) One or more other Languages,
(b) Physics,
(c) Chemistry,
(d) Mechanics (or Applied Mathematics or Mathematical Physics),
(e) History,
(f) Geography,
(g) Commerce.
TECHNOLOGICAL AND TECHNICIAN COURSES
—Contd.

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.

TECHNOLOGICAL AND TECHNICIAN COURSES
—Contd.

D/8,
CERTIFICATE COURSE FOR ARCHITECTURAL TECHNICIANS

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

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

Subjects
First Year

Second Year

Third Year

Fee £30.
D/3B.

DIPLOMA COURSE IN ENVIRONMENTAL ECONOMICS

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

Subjects

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

Second Year
Principles of Valuation; Principles of Town and Country Planning; Land Economics; Local Government Social Services; Building Construction and Services; Law of Property I; Land Surveying and Setting Out I; Law of Contract.

Third Year
Applied Valuations I; Urban Economics I; Maintenance and Management of Buildings; Law of Property II; Planning and Compensation Law; Law of Obligations; Applied Planning I.

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

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

Entry Qualifications
(a) The Secondary Schools Leaving Certificate with a minimum 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 GEO-SURVEYING

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

A pre-professional year when necessary, is available.

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

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

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

Fourth Year
- Trigonometrical, Geodetic and Topographical Surveying
- Cadastre
- Computer Applications
- Administrative Law
- Hydrographic Surveying
- Mining Surveying
- Ground Movement in Mining Areas
- Mineral Valuations
- Administrative Law
- Computer Applications
- Economic Geology
- Mineral Prospecting
- Principles of Mining

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

Entry Qualifications
- (a) The Secondary Schools Leaving Certificate with 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 £50.00 per annum.

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 £50 per annum.
TECHNOLOGICAL AND TECHNICIAN COURSES
— Contd.

D/28.

HIGHER BUILDING TECHNICIANS’ CERTIFICATE COURSE

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

Subjects

<table>
<thead>
<tr>
<th>First Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics; Science; Principles of Accounts; Structure of the Building Industry; Environment and Functions of Buildings; History of Social Change.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>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; Communications in Industry II.</td>
</tr>
</tbody>
</table>

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.
TECHNOLOGICAL AND TECHNICIAN COURSES

D/41.

PRE-PROFESSIONAL COURSE IN ENGINEERING

This is a one-year Sandwich Course consisting of eight months' academic work commencing in mid-September, followed by 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 preferably Physics (Grade C or better in Higher Course), 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 Engineering Course (D40).

Course of Study

The subjects of the course are:

Students are required to:
(a) Take the College examination at the end of the session.
(b) Have a satisfactory attendance record in all subjects.
(c) Present laboratory notebooks and year's work to the satisfaction of the examiners.
(d) Complete the vacation training programme at the end of the year, and submit a satisfactory report on it.

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.

D/42.

DIPLOMA COURSE IN MECHANICAL PRODUCTION AND STRUCTURAL ENGINEERING

(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 arrangements with the student regarding the payment of fees, allowances and expenses, 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) Have completed a minimum of three months' approved practical training in industry.

Course of Study

The subjects are as follows:

First Year
Mathematics, Principles of Electricity, Applied Mechanics, Thermodynamics, Fluids, Engineering Drawing, Physics, Production Processes, General Studies, Workshop and Laboratory Work.

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 undertaken.

A PDP-8I Digital Computer is available and students are given a formal training in its use.
TECHNOLOGICAL AND TECHNICIAN COURSES

—Contd.

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 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 £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 entrance requirements and general scheme are as in the Mechanical Engineering Diploma Course up to the Final Year.

Course of Study

Final Year

Strength of Materials, Mechanics of Machines, Design for Production, Production Technology, Production Management, Electrotechnology and Controls, Mathematics and Computer Application, Engineering Administration and General Studies.

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 Structural Engineering (Dip.Eng.)

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

Fee £50 per annum.

D/39

DIPLOMA COURSE IN TRANSPORTATION TECHNOLOGY

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

Entrance Requirements to the Course

Leaving Certificate with a pass at Higher Level in both Mathematics and English and a pass at Ordinary Level in Physics or an equivalent qualification.
TECHNOLOGICAL AND TECHNICIAN COURSES —Contd.

Course of Studies

The subjects are as follows:

First Year
Motor Engineering, Mechanical Drawing, Mathematics.
Chemistry, Physics, Heat Engines, Applied Mechanics, General Studies.

Second Year
Motor Engineering (theory and practical), Workshop Technology.
Applied Science, Electro-technology, Industrial Psychology,
Computer Science, Mechanics of Fluids, General Studies.

Third Year
General Studies, Project.

Final Year
Transportation Technology, Telerotechnology, 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 £50.00 per annum.

Examinations and Other Requirements

Professor William Wright MA BSc PhD ScD CEng FICE

D40.

PRELIMINARY ENGINEERING COURSE

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

Examinations and Other Requirements

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

Fee £30 per annum.

D44

DIPLOMA IN MOTOR INDUSTRY MANAGEMENT

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

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

Entrance Requirements

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

Course of Study

TECHNOLOGICAL AND TECHNICIAN COURSES
—Contd.

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 £35.00 per annum.

D/43C
CIVIL ENGINEERING TECHNICIANS' COURSE
This is a one-year wholertime course followed by two years of part-time studies, to prepare students as Civil or Structural Engineering Technicians or Draughtsmen. At the end of the first year successful students take up suitable employment and in the subsequent two years they attend the College on one day and two evenings per week. They may also be allowed to transfer to Course D/46C which enables them to continue their studies on a wholertime 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:

Examinations and Other Requirements
At the end of First Year: Students take the Intermediate Stage of the Department of Education Engineering Technicians’ Certificate.

At the end of Third Year: Students take the Final Stage of the Department of Education Engineering Technicians’ Certificate.

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

D/43 M.
MECHANICAL ENGINEERING TECHNICIAN COURSE
This is a one-year whole-time course followed by two years of part-time studies which prepares students for careers as technicians in different specialisations in Mechanical Engineering. At the end of the first year successful students take up employment and in the subsequent two years they attend the College on one day and two evenings per week. They may also be allowed to transfer to Course D/46M which enables them to continue their studies on a wholertime basis.

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

Course of Study
First Year

Second and Third Years
Subjects appropriate to the field of specialisation.

Examination Requirements
At the end of 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/43 H
ASSOCIATESHIP COURSE IN HEATING AND VENTILATING
This is a two-year sandwich course which prepares students for the College Examination leading to the Associateship of the Institution of Heating and Ventilating Engineers. It extends over 6 months of each year.

Entrance Requirements
Students must have passed the Department of Education Advanced Stage Technological Certificate in Mechanical Engineering together with the Intermediate Technological Certificate in Electrical Engineering or have satisfactorily completed two years of Course D/46 M.

They are also required to have had a minimum of one year's experience in a Heating and Ventilating Design Office.
Course of Study  
First Year  

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

Fee for the course £35.00 per annum.

D/43N  
INSTRUMENTATION TECHNICIANS' COURSE

This is a two-year sandwich course which prepares instrument technicians for the Part I and Part II 310 City and Guilds Technician Certificate Examinations. It extends over 26 weeks each year.

Entrance Requirements  
Leaving Certificate of the Department of Education including Mathematics and a Science subject together with suitable experience in working with instruments.

Course of Study  
First Year  

Second Year  

Examinations and Other Requirements  
At the end of the First Year students take the Part I of the 310 City and Guilds Technician Certificate in Instrumentation.

At the end of the Second Year students take the Part II Certificate examinations.

Fee for the course £35.00 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. 339).

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

Course of Study  
First Year  

Second Year  

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 they take Part II at the end of the second year.

Fee £15 per annum.
TECHNOLOGICAL AND TECHNICIAN COURSES
—Contd.

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 Certificates, 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.

D/46C.

CIVIL ENGINEERING HIGHER TECHNICIANS' COURSE

This is a three-year Sandwich course which prepares students for a higher level technician qualification 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. This course is in accordance with the recommendations of the report of the Institution of Engineers of Ireland on technician education and successful students may qualify for the new Associate membership of that Institution.

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

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

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

Third Year
Structural Design, Reinforced Concrete Design, Road Engineering, Data Processing and Computer Application, Specifications and Quantities Civil Engineering. 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. 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 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.

Fee £35 per annum.
TECHNOLOGICAL AND TECHNICIAN COURSES

D/46M.

MECHANICAL ENGINEERING HIGHER TECHNICIANS' COURSE

This is a three-year Sandwich course which prepares students for a higher level technician qualification in Mechanical Engineering. The students attend the college for eight months each year commencing in October and they spend the remainder of the year getting practical training in industry. This course is in accordance with the recommendations of the Institution of Engineers of Ireland report on technician education and successful students may qualify for the Associate membership of that Institution.

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

Course of Study
First Year, same as in course D/43M

Second Year, subjects selected from

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.

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 (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, Leaving Certificate 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 Year
Engineering Science, Mathematics, General Studies, Applied Technology and appropriate option.

Third Year
Applied Technology and one specialised subject selected from Engineering Production, Mechanical Engineering Inspection, and Plant Engineering.

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

Fee £15 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 (293). The course is of four months' duration.

Fee £15 per annum.
TECHNOLOGICAL AND TECHNICIAN COURSES
—Contd.

D/48. DEPARTMENT OF EDUCATION ELEMENTARY STAGE TECHNOLOGICAL CERTIFICATE IN MECHANICAL ENGINEERING

This is a one-year part-time day course intended to prepare students for the Elementary Stage Technological Certificate of the Department of Education.

Entrance Requirements
Students should have already passed the Group Certificate or Intermediate Certificate examination including Mathematics, and they should also be employed in an Engineering Industry.

Course of Study
Four subjects are included: Mathematics, Heat, Mechanics and Drawing.

Examinations
Students take the Department of Education Elementary Technological Certificate in the above subjects.

Fee £10 per annum.

D/49. GCE 'O' LEVEL COURSES

This is a one-year part-time day course—two days per week—intended to prepare Engineering students for the GCE 'O' Level examinations in certain subjects.

Entrance Requirements
Students should have already passed either the Department of Education Elementary Stage Technological Certificate in Mathematics, Mechanics, Heat and Technical Drawing or the Leaving Certificate or equivalent.

Course of Study
Five subjects are offered: Additional Pure Mathematics, Physics, Chemistry, English Language and Technical Drawing.

Examinations
Students take the GCE examinations in the above subjects in May/June at the end of the session.

Fee £10 per annum.

D/50 COMPUTER PROGRAMMING COURSE

This is a three-year part-time day and evening course intended to prepare students for the City and Guilds No. 319 and 320 Certificate examinations in Computer Programming.

Entrance Requirements
Leaving Certificate or equivalent.

Fee £15.00 per annum.

D/127. MOTOR VEHICLE TECHNICIANS. PART-TIME

(1) The Department of Education Technological Certificate (Motor Car Engineering) and

(2) The 170 City and Guilds of London Institute Motor Vehicle Technicians Certificate Parts I and II.

Duration of Course
38 weeks each year over 4 years.

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

Subjects

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

Fee £10 per annum.

D/135. AUTO-ENGINEERING TECHNICIANS


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

Subjects

Entrance Qualifications
Department of Education Intermediate Motor Car Engineering Technological Certificate (3 subjects) or the 170 City and Guilds of London Institute Parts I and II Certificate.

Fee £10 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 £5 per annum except in the case of designated trades where admission is free.

D/126 AUTOMOBILE ENGINEERING

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

Duration of Course 11 weeks of 35 hours each week.


Entrance Qualifications Day Vocational Group Certificate or Intermediate Certificate.

D/128 AUTOMOBILE ENGINEERING


Duration of Course 2 years of 38 weeks each year.

Attendance Subjects 1 day (7 hours) and 2 evenings (6 hours) each week. Motor Vehicle Technology, Motor Vehicle Electricity, Engineering Science, Mathematics, Technical Drawing, Garage and Motor Workshop Practice, General Studies.

Entrance Qualifications Day Vocational Group Certificate or Intermediate Certificate.

D/129 AUTOMOBILE ENGINEERING—Contd.

The City and Guilds of London Institute Motor Vehicle Mechanics' Certificate (168) 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 (168) course (D/128).

Entrance Qualifications (168) Part I of the Certificate.

D/130 AUTOMOBILE ENGINEERING

The City and Guilds of London Institute Motor Vehicle Parts Department Practice Certificate (384).

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

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

Entrance Qualifications (168) Part I of the Certificate.

D/131 AUTOMOBILE ENGINEERING

The City and Guilds of London Institute Motor Vehicle Electricians' Course (169).

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 (168) Part I of the Certificate.
TRADE COURSES—Contd.

D/132 AUTOMOBILE ENGINEERING
The Department of Education Group Trade Certificate, Senior Stage.

Duration of Course
3 years of 38 weeks each year.

Attendance
½ day (3½ hours) and 2 evenings (6 hours) each week.

Subjects
Garage Practice; Motor Workshop Practice; Motor Vehicle Theory; Motor Vehicle Science and Electricity; Mathematics and Craft Calculations; Technical Drawing; General Studies.

Entrance Qualifications
The Department of Education Group Trade Certificate, Junior Stage.

D/133 AUTOMOBILE ENGINEERING
City and Guilds of London Institute Motor Vehicle Body Repair Endorsement—168 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, 168 Parts I and II.

D/134 AUTOMOBILE ENGINEERING
The City and Guilds of London Institute Compression Ignition Engine Maintenance Work Endorsement on 168 Certificate—168 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 168 Parts I and II.

TRADE COURSES—Contd.

D/141 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.

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

*Conducted in the School of Trades.
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, Photo-composition 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

Year Three

Fee £15.00 per annum.

HIGHER 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 apprenticeship status in the age group 20-25 years and a maximum number of twelve will be enrolled each session. Selection will be based on a satisfactory result to interview and the minimum qualification is the Senior Certificate of the Department of Education—or its equivalent—in the various disciplines. The field of study will be concentrated mainly 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 £20.00 per annum.

TECHNICIAN COURSES

D/81A PRINTING TECHNOLOGY

Entrance Senior Trade Certificate (with Pass in Science)

Requirements
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 £10 per annum.

D/86 TYPOGRAPHIC DESIGN (Diploma Course in)

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

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 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 £10.00 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 £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 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 ELECTROTYING

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

TRADE COURSES—Contd.

D/191

BOOKBINDING
(Block Release Course)

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

D/192

LITHOGRAPHY AND PHOTO-LITHOGRAPHY
(Block release Course)

Consecutive courses of 12-13 weeks' duration for first, second and third year apprentices. During each course the apprentices attending complete a stage of the Department of Education's syllabi for the Junior, Intermediate and Senior Trade 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 Linefilm 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 £5.00 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

Part-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 Technician's Certificate (Parts I & II) No. 314, and the Plumbing Technician's Certificate (Parts I & II) No. 442 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.

DAY COURSES

PART-TIME DAY RELEASE CLASSES FOR APPRENTICES

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PART-TIME DAY RELEASE COURSE FOR TECHNICIANS

D/4C CONSTRUCTION TECHNICIANS

The subjects of the course include Building Construction & Services, Calculations, Building Science, Principles of Structural Design, Measurement and Price Build-up, Land-Surveying & Setting out, Elements of Administration.

Entry Qualifications

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

Tuition Fee £10.00 per annum.

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

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

Tuition Fee £10.00 per annum.
School of Architecture, Surveying + Building

EVENING COURSES

CONSTRUCTION TECHNICIAN

The courses, which are accredited by the College, are designed to provide a practical education in the field of construction. They are suitable for those who wish to enter the construction industry or who already have some experience and wish to further their knowledge.

Fee: £10 per annum.

TIMBER TECHNOLOGY

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

Fee: £10 per annum.
TECHNOLOGICAL AND TECHNICIAN COURSES

E/41. GRADUATE COURSES IN ENGINEERING
A 4/5-year course to prepare students for the examination of the following Professional Engineering bodies:
(1) Institution of Engineers of Ireland,
(2) Council of Engineering Institutes (CEI).
Courses will be offered if there are sufficient applicants of a suitable educational standard for the following:
(a) Institution of Engineers of Ireland Part I Examination.
(b) Institution of Engineers of Ireland Part II Examination.
   A selection of subjects will be offered in both Civil and Mechanical Engineering to suit the majority of the applicants.
   Prospective students should indicate their choice of optional subjects.
(c) Council of Engineering Institution (CEI) Part I.
   Some or all of the following subjects may be offered:
   Mathematics, Mechanics, Thermodynamics, Electrotechnology, Properties of Materials and presentation of Engineering Information.

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 in Mathematics or GCE Advanced Level in Mathematics and four Ordinary Level subjects including English and Physics.

Fee £10:00 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 £10:00 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 Engineers.

Fee £10:00 per annum.
TECHNOLOGICAL AND TECHNICIAN COURSES
—Contd.

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: £10.00 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.

Advanced Level

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

Fee per annum:

- £7.50 for four subjects,
- £1.50 for each additional subject.

TECHNOLOGICAL AND TECHNICIAN COURSES
—Contd.

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: £10.00 per annum.

E/43C.

CIVIL ENGINEERING TECHNICIANS' COURSE

This is a four-year evening course to prepare students in suitable employment for the Intermediate and Final Department of Education Examinations for the Civil Engineering Technicians' Certificate.

Entrance requirements are Leaving Certificate or GCE equivalent.

Subjects

First & Second Years

- Maths, Mechanics, Engineering Science, Drawing, Building
- Construction, Surveying and Materials,

Third & Fourth Years

- Structures, Civil Engineering Construction, Surveying, Concrete
- Technology, Administration, Specifications and Quantities, Geology, Soil Mechanics,

Fee: £10.00 per annum.
**TECHNOLOGICAL AND TECHNICIAN COURSES**
—Contd.

E/43 N.

**INSTRUMENTATION TECHNICIANS COURSE**

This is a four-year evening course to prepare students employed as Instrument Technicians for the Part II 310 City and 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 £10.00 per annum.

E/43M.

**MECHANICAL ENGINEERING TECHNICIANS**

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

**Subjects**


Fee £10.00 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 and Guilds Structural Engineering Courses No. 430. The entrance requirement is Leaving Certificate or equivalent.

**Subjects**

First Year

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

Fee £10.00 per annum.

E/44.

**FINAL ASSOCIATE MEMBERSHIP EXAMINATIONS (EXTERNAL) OF THE INSTITUTE OF THE MOTOR INDUSTRY**

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 £10 per annum.

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 Air conditioning 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.
TECHNOLOGICAL AND TECHNICIAN COURSES
—Contd.

E/57. 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.

Fee £10 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 £10.00 per annum.

E/50. DATA PROCESSING FOR COMPUTER USERS

This is a one-year course in which students are prepared for the City and Guilds Examination No. 383 (Data Processing for Computer Users).

Entrance Requirements

Leaving Certificate with Commercial or Industrial experience.

Fee £10.00 per annum.

E/52. PLUMBING TECHNICIANS

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

Fee £10.00 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 73 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 £10.00 per annum.
TECHNOLOGICAL & TECHNICIAN COURSES

--- Contd. ---


Duration of Course: 2 years evening (9 hours per week) for 26 weeks each year.

Subjects: Motor Car Engineering,
Automobile Electricity,
Heat Engines,
Applied Mechanics,
Garage Organisation and Management.

Entrance Qualifications: Department of Education Intermediate Motor Car Engineering Technological Certificate (3 subjects) or 170 The City & Guilds of London Institute Parts I and II Certificate.

Fee: £10 per annum.

E/139. GRADUATE MEMBERSHIP OF THE INSTITUTE OF MATERIALS HANDLING.

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

Subjects: Materials Handling Technology,
Materials Handling Equipment,
Materials Management,
Industrial Engineering.

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

Fee: £10 per annum.

E/133. 168 CITY & GUILDS OF LONDON INSTITUTE MOTOR VEHICLE BODY REPAIR ENDORSEMENT. PART III.

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

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

Entrance Qualifications: 168 City and Guilds of London Institute Motor Vehicle Mechanics Certificate, Parts I and II.

E/134. 168 CITY & GUILDS OF LONDON INSTITUTE COMPRESSION IGNITION ENGINE MAINTENANCE CERTIFICATE. PART III.

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

Subjects: Compression Ignition Engine Technology,
Compression Ignition Engine Maintenance,
Fuel Injection System Maintenance.

Entrance Qualifications: 168 City and Guilds of London Institute Motor Vehicle Mechanics' Certificate, Parts I and II.

TRADE COURSES

The following evening courses are provided for Engineering Trade apprentices.

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

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

Fee: £4.50 per annum.
TRADE COURSES—Contd.

E/136.

FORK LIFT TRUCK MAINTENANCE COURSE

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

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

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

E/137.

WAREHOUSE SUPERVISORS (MATERIALS HANDLING) COURSE

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

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

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

E/138.

FORK LIFT TRUCK OPERATORS' COURSE

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

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

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

E/142.

MOTOR MECHANICS' WORK

Refresher course for Motor Mechanics

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

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

Entrance Qualifications Senior Group Trade Certificate of the Department of Education.
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 £7.50 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 £5 per annum.

TECHNICIAN COURSES—Contd.

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 £5 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 £5 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 £5 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 £5 per annum.
TECHNICIAN COURSES—Contd.

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.

Enrolments at College of Commerce.

E/181 ARTISTIC BOOK FINISHING

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

E/181A BOOKCRAFT

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

E/181B BOOK PRODUCTION COURSE

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

Fee £5.00 per annum.

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 wrapround rotary printing, also the use of modern lining up, plate mounting and registering equipment.

Fee £5.00 per annum.

E/185 LINOTYPE, INTERTYPE, AND TELETEYPESETTING

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

Fee £5.00 per annum.
TECHNICIAN COURSES

MONOTYPE CASTER OPERATION
E/186
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 £5.00 per annum.

MONOTYPE KEYBOARD OPERATING
E/187
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 £5.00 per annum.

COMPOSING RETRAINING
E/190
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 £5.00 per annum.

BOOKBINDING AND PRINT FINISHING, RETRAINING
E/191
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 £5.00 per annum.

LITHOGRAPHY AND PHOTO LITHOGRAPHY, RETRAINING
E/192
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 £5.00 per annum.

TECHNICIAN COURSES—Contd.

FILM ASSEMBLY AND PHOTO HEADLINER DISPLAY TECHNIQUES
E/195
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.

IBM KEYBOARD CONVERSION AND PAPER MAKE-UP COURSE
E/195A
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.

DIPLOMA COURSE IN PRIVATE PRESSWORK
E/196
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 £5.00 per annum.
TECHNICIAN COURSES

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 £10.00 per annum.
EVENING COURSES

TECHNICIAN COURSES

CONSTRUCTION TECHNICANS

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

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

Entrance Qualifications

Employment in the Construction Industry.

Tuition Fee £10.00 per annum.

TRADE COURSES

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

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

Entrance Qualifications

Employment in the relevant trade.

Fee £4.50 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.

The courses relate to the Examinations of the following bodies:

1. Department of Education

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

(b) Technician Certificate Examinations in Engineering

(c) Trade Certificate Examinations in:
(i) Bricklaying and Masonry.
(ii) Brass Finishing.
(iii) Cabinetmaking.
(iv) Carpentry and Joinery.
(v) Composers' Work.
(vi) Letterpress Machine Work.
(vii) Lithography & Photo Lithography.
(viii) Bookbinding.
(ix) Metal-plate Work.
(x) Motor Car Engineering.
(xi) Painting and Decorating.
(xii) Plasterers' Work.
(xiii) Plumbing.
(xiv) Fitters' Work.
(xv) Turners' Work.
### EXAMINATIONS—Contd.

#### 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.
  (Licence in Aeronautical Engineering).
- (iv) Institute of Clerks of Works in Ireland.
- (v) Institute of the Motor Industry.
- (vi) National Association of Paper Merchants.
- (vii) Associated Examining Board (GCE).
- (viii) London University (GCE).

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

1. Admission to a course in the College may not of itself entitle students to sit for examinations of external bodies. Students are themselves responsible for ensuring that they satisfy all the requirements of the examining body concerned.

2. Students are expected to acquaint themselves with the current regulations for the examinations which they propose to take.

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

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

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

### Architecture
- F B Meehan MRIAI BArch
- H S Robson MSc BArch MRIAI ARIBA
- D O'Toole FRIAII 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 Trades
- J Cassidy General Secretary National Engineering Union
- H T Hanlon Irish Engineering Industrial & Electrical Trade Union
- P J Buckley Irish Engineering Industrial & Electrical Trade Union
- F Gray Personnel Officer Coras Iompair Eireann
- 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
- H Farrelly Districc Secretary United Society of Boilermakers and Iron and Steel Shipbuilders

### Heating and Ventilating Engineering
- Eoin O'Clona BE MICEI AMIEE MIHVE MASHRAE MConslEI Hon Secretary The Association of Consulting Engineers of Ireland
- Noel Traynor AMIHVE Hon Secretary The Association of Master Plumbers Heating & Ventilating Engineers of Ireland
- Seamus Homan AMIHVE Design Engineer Varming & Mulcahy Consulting Engineers
- Eamonn O'Brien c/o Robt Jacob Consulting Engineers
- Reginald Keating GIHVE Hon Secretary The Association of Design Engineers & Draughtsmen

### ADVISORY COMMITTEES—Contd.

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<td>Royal Institution of Chartered Surveyors</td>
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<tr>
<td>G M Costello FRICS</td>
</tr>
<tr>
<td>D Bailey FRICS FAI</td>
</tr>
<tr>
<td>I French ARICS</td>
</tr>
<tr>
<td>H Kirby ARICS</td>
</tr>
<tr>
<td>T McLoughlin ARICS</td>
</tr>
<tr>
<td>J Good BE FRICS</td>
</tr>
<tr>
<td>N McDonagh FRICS</td>
</tr>
<tr>
<td>D T McCarthy FRICS</td>
</tr>
<tr>
<td>A Reddy FRICS</td>
</tr>
<tr>
<td>H C Tierney FRICS</td>
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<tr>
<td>T L Sudway ARICS</td>
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<tr>
<td>B V Boyle FIQS</td>
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<tr>
<td>T Clear FIQS</td>
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<tr>
<td>J Pettis AIQS</td>
</tr>
<tr>
<td>N Power-Smith AIQS</td>
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<td>J Jennings FIOB</td>
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<td>J McCormack FIOB</td>
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<td>D Mcllvenna FIOB</td>
</tr>
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<td>L Thompson BAl MICEI FIOB</td>
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<td>J Culliton FCSI</td>
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<td>J Gilmore Byrne FCSI</td>
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<td>N Shortall ACSI</td>
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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 Cloran
J B Doherty
P J Duffy
C Jones
J N Traynor
T Harrington

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

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
J D Purdy J & C McLoughlin Limited

Irish Printing Federation
C W Warren
R R Yates-Hale
P Hill
S Mooney

National Union of Vehicle Builders
M Jackson
H Samway
G J Roberts Coach and Motor Body Builder 3A Lower Grangegorman Dublin 7
M P Gavigan c/o R Callow & Sons Ltd Westland Row Dublin 2

Printing and Book Production
Irish Master Printers' Association
W D Britton
M Kavanagh

N C McGrath Irish Graphical Society
B O Cearbhaill 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
ACADEMIC STAFF

School of Architecture, Surveying + Building

Head of School: Kevin Fox BArch MRIAI

Head of Department: John J O'Keeffe MRIAI BArch
Assistant Head: Liam Carlin MRIAI ARIBA

Whole-time Staff
Albert J Brady BArch MRIAI
Michael Clifton BE AMICE
William Gilligan BArch MRIAI
Fergus A Hogan MRIAI DipArch
Anthony Johnson BArch MRIAI ARIBA
John O'Gorman BArch MRIAI FRIBA
Stanislaus Manning BArch MRIAI
Michael O'Sullivan DipArch MRIAI
Eamonn O'Doherty BArch MRIAI
Sean Rothery BArch MRIAI

Part-time Staff
Anthony Atkinson DipArch
Charles Brady
M Brogan ARIBA MRIAI
Peter Doyle BArch MRIAI ARIBA
C P Ferguson MRIAI ARIBA
R J Fowler DipArch MRIAI
Leonard Gallagher BAgrSc
J B Gilroy DipArch MRIAI
James J Harrington BE CEng AMIstructE AMICE
Maurice Hogan MRIAI
P Kerrigan DipArch ARIBA
Derek Kilfeather
James F Knaggs
Ciaran Lennon
Piaras Mac Cionnaith BArch MRIAI
Ray McDonnell BArch MRIAI
Leo Mansfield DipArch MRIAI
Christopher Morris
T O'Beirne
Ciara O'Carroll BArch MRIAI
D O'Clonide
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 BArch MRIAI
Pascal Wynne IIAS

Department of
Architecture +
Town Planning

Head of Department: Christopher W Parfitt FRICS FIOB FSH FIArb
Assistant Head: Eanna de Burca FRICS
Assistant Head (Urban Economics): Laurence Liddle MA FRICS

Whole-time Staff
John Barnett ARICS MMinE FGS
John Keegan MHIA DipHI (Seconded from the Department of Health)
Seamus Cunningham M(Hons) ABSi
Joseph P Davis BComm MSc(Econ) CertEd
J A Dixon BSc FRICS
Daniel Kelly BE MIEI CEng FCSE
Sean Loftus Barrister-at-Law
Patrick McGuinness FIOB
Kevin Murnane ARIBA MRIAI
Patrick Mulhern BSc PhD
Liam O'Dulachain FCPA FICA
Rory Walsh ARICS

Part-time Staff
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Ruth Bradley BSocSc
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Dr Ronald Cox MA MAI PhD AMICE AMICE
James Daly BE
S Davis MSc
Michael Davitt ABSi
J Eustace MA
Anthony Fitzpatrick BComm
A Farrell MRIAI
Ian French ARICS
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Paul Good ARICS
Dr Derek Goodhue BSc
P Griffin MRIAI
Cornelius Healy MHIA
F McCarthy LLB
ACADEMIC STAFF—Contd.

School of Engineering
Head of School: John D Barry PhD MSc CEng FIMechE FIEI
Assistant Head: Denis Fitzgibbon BE MSc CEng MMechE

Department of Engineering Technology
Head of Department: Denis Fitzgibbon BE MSc CEng MMechE
Assistant Head: Michael O'Donnell MConSc BE BComm CEng MIProdE MIEI

Whole-time Staff
Liam Archer GI MechE
John A Butler DipEng AMInstF CEng MMechE
John Cash BE MS
Michael Clifton BE CEng MIEI
J. Kieran Coyne BE MSA
Patrick Doyle AMIEE DipIE
James Daly CEng MIEI
Neil Gillespie CEng MIMechE GIHE
Raymond Hughes CEng MIERE
John Kelleher BE
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A O’Hanlon
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Richard Daly
Edward P Dunne CEng MMechE MIEI
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Vincent Duffy
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K Eng MA MWeldl
Mel Gilligan DipEng MSc
T E Glynn
R Grimason AMIHVE

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Raymond Mulvihill BA BScSc
Gerard Murphy MRSH
Michael A Nugent MHIA DipPH
Mannix O’Boyle MRCVS
Timothy J O’Halloran FRICS
P Pigott BE MSc
B A Skelton ARICS
Dr John Walker MB BCh BOA
Staf Van Velthoven MRIAI
Thomas D Watson MHIA

Visiting Lecturers
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F Shanley ARICS
J H McFarlane FAI

External Examiners
Gerald Louis Burke MC MSc FRICS FAI AMPTPI
Patrick J Carmody MA FRICS
James Good BE FRICS
Robert Hedges FIOB FIQs AMBIM
Robert Francis Lane BSc FRICS
Aidan Williams FRICS
ACADEMIC STAFF—Contd.

John Gribben HonsM1
James J Harrington BE CEng MStructE
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Reginald Keating AMIHVE
A J Knott AMIHVE
J F Lawless
Padraig MacLoughlin BE
Thomas F S Malone BE BComm
Daniel Mooney AMIHVE
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Michael Murphy DipEng MSc
John O'Conor CEng MStructE
A O Dunlaing BE MEngSc
Richard F O'Leary
Brian Torpey CEng MStructE
Dermot Walls BE
Arthur R Ward ACA
Andrew Whelan ME AMICE MIEI

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

Department of Science—

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

Whole-time Staff
Patrick Carroll BSc
Elizabeth T Clancy BSc
Tomas O Conbhai BSc HDipEd
Jeremiah T Cotter MSc
John J Doherty BA
William McCarthy BA BComm HDipEd
Matthew L Niall MSc BComm
Marguerita O'Kelly BA BScSc DipScSc HDipEd
Louis R Purton BSc HDipEd
Michael Swords BSc

Mathematics

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

Department of Engineering Trades

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

Whole-time Staff
Desmond Aungier
Martin Dunne
Peter Flood
Denis McGrath
James McKenna
Charles B O'Brien GradlPlantE FTC (C & G)
H A O'Neill CEng FIProdE

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George B Cullen CEng MIMechE MIEI
Peter Deane
Niall Dardis
Charles Dowdall
Howard J Greer
John Kearney
John Kearns
William Kennedy
James F Lawless
Daniel M Magee
Timothy P Murphy MIMarE
Patrick O'Doherty
Sean O'Farrell
### ACADEMIC STAFF—Contd.

**Department of Aeronautical Engineering**

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

**Whole-time Staff**
- William J Brazil

**Part-time Staff**
- Gerard H Brannigan  
- James Coleman X Licence PMG  
- Eamonn K Dempsey  
- James Donohoe AME  
- Albert 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  
- Sean Staunton  
- Robert Stuart  
- Frank J Walshe  
- Douglas Wilson  
- Patrick Whyte

**Department of Automobile Engineering**

Head of Department: John Guirke AMIIMI Manual Instructor's Certificate (Honours) AMBIM  
Assistant Head: Richard Dowling MIMI

**Whole-time Staff**
- John A Butler DipEng AMInstF CEng MIMechE MBIM  
- Timothy Giblin FTC(C & G)  
- Alan Harbron SIMT TechDip  
- T J Kernan FTC (C&G) FIMH  
- Patrick Kenny BE MSc  
- Michael Kelly SIMT TechDip MIMH  
- Arthur McDermott AMIMI MlWM DipSoScSc AMBIM  
- James McGauran SIMT TechDip  
- John Monaghan FTC (C&G)  
- Paul Purcell SIMT TechDip  
- Niall O'Cearbhail BE  
- John Wilcox SIMT TechDip

**Part-time Staff**
- Bernard Butler AMBIM MIWI MIMH  
- Fintan Byrne GradIMI  
- Thomas Carroll AMIMI  
- Michael J Chester CEng AMI MAME  
- Paul G Colligan ACA FCWA  
- William Costello DipEng GIMechE  
- David J Cunningham  
- William J Doherty  
- Edward P Dunne CEng MIMechE MIE  
- Stephen Dunne  
- John A Durney  
- John C Fitzpatrick  
- Enda Fagan FTC (C&G)  
- Thomas A Flood GradIMI  
- John Gribben  
- Peter T Hynes  
- Reg Keating CEng AMIHVE  
- Brendan A Kelly GradIMI  
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- Thomas Leddy  
- Michael Long  
- Sean J Loughran GIMechE  
- Bernard E McGee  
- Donal McGonnel GradIMechE  
- John McNamara  
- Desmond Maguire  
- Stephen Mason  
- Michael C Quirke GradIMI  
- Patrick Morgan  
- Patrick Murray  
- John Newman  
- John O'Gorman GradIMI  
- Michael O'Neill GradIMI  
- G Pello AMInstF  
- R Phelan CEng AMIMarE  
- Eamon V Staunton AMIWI  
- Anthony Tobin
ACADEMIC STAFF—Contd.

Department of Metal Fabrication

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

Whole-time Staff

James F Bartley Final C&G
Joseph N Bernie Final C & G
Patrick Carpenter FTC (C&G)
Thomas Colley Final C & G
Albert Byrne Final C&G
Wm Jackson Final C & G
Gabriel McGreer Final C&G
Seamus Murran Final C & G
Nicholas Murray Final C&G
Anthony O'Toole FTC C&G
Joseph Quinn
Daniel Rooney FTC C&G MRSH
Joseph K Walsh FTC C&G

Part-time Staff

Patrick Bolton Final C&G
James Bryan Final C&G
Francis Byrne
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Vincent Davenport MS X-rayT MWeldl
Christopher Devine
Noel Dunne Final C&G
Kenneth Eng MA MWeldl
Michael C Foran
Henry Greagsbey
Henry Higgins Final C&G
John Lavelle Final C & G
Thomas Little HNC
George Mackie MWeldl
Noel Mullen AWeldl
William Phillips Final C&G
Vincent Robinson SJ FTC C&G

ACADEMIC STAFF—Contd.

School of Trades

Head of School: J B Hickey BA

Department of Building

Trades 'A'

Head of Department: Vacant
Head of Furniture Division: Michael C Murray Hons C & G

Whole-time Staff

James Burns
Charles Costello
Frederick Hosford Final C&G
Joseph Lawlor BA HDipEd FIBD
Gerard O'Toole

Part-time Staff

James Farrell
M F Gavigan
John Kenny
Patrick Lawlor
Sean Mac Conaill
P O'Hanlon
Valentine Ryan

Department of Building

Trades 'B'

Head of Department: Thomas Bridgeman FCSI FTC(Hons)
Assistant Head: Joseph P O'Byrne ACSI LIoB

Whole-time Staff

Michael Bridgeman
Thomas Byrne
Donal Cooper Final C & G
Brendan Dunne FCSI LIoB
Aidan Halpin ABICC Final C & G
James Kelly Final C & G
Patrick Kelly Final C & G
Thomas Kiernan FTC (C & G)
Michael McDonnell
Robert McShane
John McGuirk
James Wall

Department of Metal Fabrication

As in School of Engineering.
ACADEMIC STAFF—Contd.

School of Printing & Book Production

Head of School: Philip O'Reilly MIOP
Assistant Head: Vacant
Dept Assistant (Letterpress Machine): Vacant

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 hEifearmain BA FTC (C & G) HDipEd
Brendan Quinn Final C & G
Joseph Reddin (Lic in Printing) (C & G) AMI PtgM
Kenneth Richards Final C & G
Robert Sharpe Final C & G

Part-time Staff
C Andrews
Ciaran Donaghy BA BComm
F Dowling
W Dunne
B Farrell
J Farrell
W J Fitzpatrick MIOP
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
G McLoughlin
Allan McLeod-Martín ACCS
B McCarthy
B O’Connor

ACADEMIC STAFF—Contd.

Bernard O’Loughlin
O Morris
Aidan Ryan
T J Farrelly-Smith
P Smyth
Shamus Wade MIAPI AGMA
Kevin B Walsh
J Murphy
E Horan
P Walsh
John Whelan

General

CHAPLAINS

Senior Chaplain
Rev Dermot McKenna SJ

Rev John McAvoy SJ
Rev Edward McAsey SJ
Rev Brian Scallan SJ
Rev Ronan Geary SJ

Rev Bernard Coleman OFM
Rev Rory O’Leary OFM

School of Trades

PHYSICAL EDUCATION

Michael C Doogan

LIBRARY

Librarian
Donal J Kennedy
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