1970

College of Technology, Bolton Street Prospectus 1970-71

City of Dublin Vocational Education Committee

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1970-71 Prospectus

COLLEGE OF TECHNOLOGY

Bolton Street
Dublin 1

City of Dublin
Vocational Education Committee

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

School of Architecture, Surveying & Building

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

Department of Surveying & Building Technology
Head: Christopher W Parfitt FRICS FIOB FRSH FIARB
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 MI Mech E
Assistant Head: Michael O'Donnell MEcon Sc BE BComm CEng MIPродE MIEI

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

Department of Engineering Trades
Head: Vacant
Assistant Head: Joseph Shiel

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

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

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

DEPARTMENTS

School of Printing and Book Production

Head of School: William J Fitzpatrick MIOP
Asst. Head of School: Christopher McCullagh Final C & G
Dept. Assistant: Philip O'Reilly MIOP
(L'press Machine):

School of Trades

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

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

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

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

Whole-time
Students are admitted at the commencement of the session in September. Applications for admission 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
Day Classes will normally be held from 9 am to 12.30 pm and 2 pm to 5 pm each week-day except Saturday unless special arrangements are made in specific cases. Evening Classes will normally be held from 7 pm to 10 pm except where shown otherwise. Office Hours: 9 am to 12.30 pm and 2 pm to 5 pm Monday to Friday, and at special periods of the year at times which will be posted on the Notice Board. Except during enrolment periods members of the teaching staff will not be available for interviews except by prior appointment.

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

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

Attendance
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.

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

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 £2.00 is payable in respect of sessional examinations in Diploma courses.
A candidate may be permitted to sit for one supplementary examination without payment of a further fee.

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 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:
Application for these grants should be addressed to the Secretary of the Local Authority.

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 any of the public libraries in Dublin any special reference book or text book required by a student. The removal of books or journals from the Library is not permitted.

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

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

**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 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

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Courses (Day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technological</td>
<td>Architecture, Surveying + Building</td>
</tr>
<tr>
<td>+ Technician</td>
<td>D/1. Architecture Diploma Course. Whole-time.</td>
</tr>
<tr>
<td>Courses</td>
<td>D/2B. Higher Building Technicians' Certificate. Whole-time.</td>
</tr>
<tr>
<td></td>
<td>D/3B. Diploma Course in Environmental Economics (Progressively superseded courses in General Surveying). Whole-time.</td>
</tr>
<tr>
<td></td>
<td>D/4B. Diploma Course in Construction Economics (Progressively superseded courses in Building Technology &amp; Quantity Surveying). Whole-time.</td>
</tr>
<tr>
<td></td>
<td>D/4C. Course for Building Technicians. Part-time.</td>
</tr>
<tr>
<td></td>
<td>D/6A. Town &amp; Regional Planning. Whole-time.</td>
</tr>
<tr>
<td></td>
<td>D/6B. Town &amp; Regional Planning. Part-time.</td>
</tr>
<tr>
<td></td>
<td>D/7. Health Inspectors' Diploma Course, Sandwich.</td>
</tr>
</tbody>
</table>

**Engineering**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Whole-time/Part-time</th>
</tr>
</thead>
<tbody>
<tr>
<td>D/41. Pre-professional Course in Engineering.</td>
<td>Whole-time.</td>
</tr>
<tr>
<td>D/42A. Diploma Course in Mechanical &amp; Production Engineering.</td>
<td>Whole-time.</td>
</tr>
<tr>
<td>D/42B. Mechanical Engineering Professional Course.</td>
<td>Part-time.</td>
</tr>
<tr>
<td>D/43C. Civil Engineering Technicians' Course.</td>
<td>Whole-time/Part-time.</td>
</tr>
<tr>
<td>D/43M. Mechanical Engineering Technicians' Course.</td>
<td>Whole-time/Part-time.</td>
</tr>
<tr>
<td>D/43V. Heating, Ventilating &amp; Airconditioning Technicians' Course.</td>
<td>Whole-time/Part-time.</td>
</tr>
<tr>
<td>D/44. Diploma in Motor Industry Management.</td>
<td></td>
</tr>
<tr>
<td>D/45. Aircraft Technicians' Course, Sandwich.</td>
<td></td>
</tr>
<tr>
<td>D/46. Mechanical Engineering Higher Technicians' Course, Sandwich.</td>
<td></td>
</tr>
<tr>
<td>D/47A. Mechanical Engineering Technicians' Course.</td>
<td>Part-time.</td>
</tr>
<tr>
<td>D/47B. Mechanical Engineering Technicians' Course.</td>
<td>Block release.</td>
</tr>
</tbody>
</table>

**Printing**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Part-time.</th>
</tr>
</thead>
<tbody>
<tr>
<td>D/82. Training for Administrative Staff.</td>
<td></td>
</tr>
<tr>
<td>D/83. Higher Printing Education.</td>
<td></td>
</tr>
</tbody>
</table>
GUIDE TO COURSES—Contd.

Technological and 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/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/50. Refrigeration Engineering Technicians.
E/51. Instrumentation and Control.
E/52. Plumbing Design and Technology.
E/53. Jig and Tool Design.
E/54. Advanced Structural Design Course.
E/55. Engineering Administration.
E/57. Works Managers' Course.
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/129. Automobile Engineering, Part-time.
D/130. Motor Vehicle Parts (City & Guilds), Part-time.
D/131. Motor Vehicle Electricians (City & Guilds), Part-time.
D/133. Motor Vehicle Body Repair (City & Guilds), Part-time.
D/134. Motor Vehicle Mechanics (City & Guilds), Part-time.
D/141. Fitting and Turning, Block release.
D/149. Sheet Metal.
D/150. Metal Fabrication, 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/192. Lithography and Photo-Lithography, Block Release.
D/195. Film Make-up, Block release.

School of Trades
D/102. Plastering, Part-time.
D/105. Painting and Decorating, Part-time.
D/111. Cabinet Making, Part-time.
D/112. Upholstery, Part-time.
D/122. Woodcutting Machinists' Work, Part-time.
### GUIDE TO COURSES—Contd.

#### Trade Courses (Evening)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E/133</td>
<td>Motor Vehicle Body Repair.</td>
</tr>
<tr>
<td>E/134</td>
<td>Compression Ignition Engine Maintenance.</td>
</tr>
<tr>
<td>E/136</td>
<td>Fork Lift Truck Maintenance.</td>
</tr>
<tr>
<td>E/137</td>
<td>Warehouse Supervisors' Course.</td>
</tr>
<tr>
<td>E/138</td>
<td>Fork Lift Truck Operators' Course.</td>
</tr>
<tr>
<td>E/141</td>
<td>Fitting and Turning, Part-time.</td>
</tr>
<tr>
<td>E/142</td>
<td>Motor Mechanics' Work (Advanced), Part-time.</td>
</tr>
<tr>
<td>E/143</td>
<td>Gas and Electric Welding, Part-time.</td>
</tr>
<tr>
<td>E/144</td>
<td>Patternmaking, Part-time.</td>
</tr>
<tr>
<td>E/145</td>
<td>Foundry Work, Part-time.</td>
</tr>
<tr>
<td>E/149</td>
<td>Metal Plate Work, Part-time.</td>
</tr>
<tr>
<td>E/151</td>
<td>Heating Engineering Fitters, Part-time.</td>
</tr>
</tbody>
</table>

*Located in School of Trades.

#### Printing

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E/185</td>
<td>Linotype, Intertype and Teletypesetting, Part-time.</td>
</tr>
<tr>
<td>E/186</td>
<td>Monotype Casting, Part-time.</td>
</tr>
<tr>
<td>E/187</td>
<td>Monotype Keyboard, Part-time.</td>
</tr>
<tr>
<td>E/195</td>
<td>Film Make-up, Part-time.</td>
</tr>
</tbody>
</table>

#### School of Trades

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E/101</td>
<td>Bricklaying, Part-time.</td>
</tr>
<tr>
<td>E/105</td>
<td>Painting &amp; Decorating, Part-time.</td>
</tr>
<tr>
<td>E/107</td>
<td>Vehicle Building, Part-time.</td>
</tr>
<tr>
<td>E/112</td>
<td>Upholstery, Part-time.</td>
</tr>
<tr>
<td>E/113</td>
<td>Wood Finishing, Part-time.</td>
</tr>
<tr>
<td>E/121</td>
<td>Carpentry &amp; Joinery, Part-time.</td>
</tr>
<tr>
<td>E/122</td>
<td>Woodcutting Machinists' Work, Part-time.</td>
</tr>
<tr>
<td>E/153</td>
<td>Plumbing, Part-time.</td>
</tr>
</tbody>
</table>

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**POST-GRADUATE COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D/1A</td>
<td>Town and Regional Planning (Whole-Time)</td>
</tr>
</tbody>
</table>

**Day Courses**

**School of Architecture**

**Town Planning**

**Entrance Standard** Same as for Course D/1A.

**Fee** £15 per annum.
School of Architecture
Surveying + Building

Department of Architecture
+ Town Planning

POST-GRADUATE COURSES

D/6A.

TOWN AND REGIONAL PLANNING (WHOLE-TIME)

This is a two-year full-time course, the second year may be part-time which 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.

Subjects

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

D/6B.

TOWN AND REGIONAL PLANNING (PART-TIME)

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

Entrance Standard
Same as for Course D/6A.

Subjects
Same as for Course D/6A.

Fee £35 per annum.
DIPLOMA COURSE IN ARCHITECTURE

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.

Entrace 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.

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.
TECHNICIAN COURSES

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.

Department of Surveying
+ Building Technology
TECHNOLOGICAL COURSES

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; Logic, Principles of Law; Mathematical Statistics; Principles of Accounts; Economics; Environment and Functions of Buildings; Human Organisation and Environment.

Second Year
Principles of Valuation; Principles of Town and Country Planning; Land Economics: Management and 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; Land Surveying and Setting Out II.

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

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

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

Fee £50 per annum.

TECHNOLOGICAL COURSES—Contd.

DIPLOMA COURSE IN CONSTRUCTION ECONOMICS

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

Subjects

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

Second Year
Construction Site Works and Services; Building Science; Industrial Economics and Practice; Land Surveying and Setting Out, Law of Contract; Law of Property I; Principles of Valuation.

Third Year
Quantities and Economic Analysis; Principles of Management; Construction Site Work and Services II; Principles of Structural Design; Maintenance of Buildings; Land Surveying and Setting Out II, Law of Obligations, Rights and Easements.

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

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

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

Fee £50 per annum.
TECHNOLOGICAL COURSES—Contd.

D/5. DIPLOMA COURSE IN GEO-SURVEYING

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

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

First Year

Second Year

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

Fourth Year
(Land Surveying)
Trigonometrical and Geodetic Surveying II; Topographical Surveying III; Cadastre III; Computer Applications; Administrative Law.

(Mining Surveying)
Mining Surveying; Ground Movement in Mining Areas; Mineral Valuation; Mineral Leases, Covenants and Assignments; Administrative Law; Computer Applications.

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

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

Fee £50 per annum.

TECHNOLOGICAL COURSES—Contd.

D/7. DIPLOMA COURSE IN HEALTH INSPECTION

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

Subjects

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

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

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

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

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

Fee £50 per annum.
**TECHNICIAN COURSES**

**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 Licentiate'ship 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**

First Year
Mathematics; Science; Principles of Accounts; Structure of the Building Industry; Environment and Functions of Buildings; History of Social Change.

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

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

**Practical Experience**

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

**Entry Qualifications**

(a) The Secondary Schools Leaving Certificate, or
(b) The Matriculation Certificate of a recognized 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 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, and three months' practical training in industry. Its purpose is to prepare suitable students for entry to the Diploma Courses in Mechanical, Structural and Production Engineering.

Entrance Requirements

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

Students who fail to meet the above entrance requirements may be considered for entry to the Preliminary 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

(a) Pass the College Pre-Professional Examination or its equivalent.
(b) Have completed a minimum of three months' approved practical training in industry.

First Year

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-81 Digital Computer is available and students are given a formal training in its use.
TECHNOLOGICAL 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 of the Institution of Mechanical Engineers and the
Institution of Engineers of Ireland.

Fee £50 per annum.

(2) PRODUCTION ENGINEERING

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

Award of Diploma in 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 Structural Engineers and the Institution of
Engineers of Ireland.

Fee £50 per annum.

(3) STRUCTURAL ENGINEERING

This is a three-year sandwich course consisting of eight months’
academic work each year commencing in mid-September
and three months’ practical experience in a design office or on site.
The general scheme and entrance requirements are as in the
Mechanical Engineering Diploma Course. In the first, second and final
years, students take special options in Structural Theory,
Design and Practice and their final year project will be based on
some aspect of Structural work. A PDP-8 Digital computer is
available and students are given a formal training in its use.

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

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

Fee £50 per annum.

D/40.

PRELIMINARY ENGINEERING COURSE

This is a one-year whole-time course commencing each year in
mid-September. Its purpose is to prepare suitable students for entry
to the 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.
TECHNICIAN COURSES

D/44

DIPLOMA IN MOTOR INDUSTRY MANAGEMENT

The Diploma course in Motor Industry Management is geared to providing qualified personnel to fill the many varied responsible positions offered by the Motor Industry.

It is a three-year whole-time course. Classes begin in mid-September and end in May. Weekly attendance at lectures is approximately 30 hours.


Progress to successive years of the course will be on the basis of the student's work during the session and his success in the College sessional examinations. Permission to take the College sessional examinations will only be granted to students with at least 60% attendance at specified lectures.

An essential requirement of the course is that students make arrangements to 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 (Eire region) and the College Authorities will assist in placing them with firms for this purpose.

The entrance standard is Leaving Certificate or equivalent in specified subjects, viz., Mathematics, Physics and English. Student candidates will be called for interview before being finally accepted for admission to the course. The fee for the course is £35 for each year. Textbook expenses about £15.

D/43C

CIVIL ENGINEERING TECHNICIANS' COURSE

This is a one-year wholetime 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 wholetime basis.

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

Course of Study
First Year

Second & Third Years
Six 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/43M

MECHANICAL ENGINEERING TECHNICIAN COURSE

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

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

Course of Study
First Year

Second and Third Years
Subjects appropriate to the field of specialisation.
TECHNICIAN COURSES—Contd.

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/45.

AIRCRAFT TECHNICIANS' COURSE

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

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

Course of Study
First Year
French, English, Social Science, Physics, Mechanics, Mathematics, Drawing, Chemistry, Workshop Technology, Workshop Practice, Aero-Laboratory and PT.

Second Year
As above except Heat Engines instead of Physics.

Third Year
As above together with Materials.

Final Year
As Third Year.

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

Fee: £30 per annum.
TECHNICIAN COURSES—Contd.

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, Laboratory Work and General Studies.

Third Year
Structural Design, Reinforced Concrete Design, Road Engineering, Hydraulic Engineering, Specifications and Quantities Civil Engineering Plant, and Administration. 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.

TECHNICIAN COURSES—Contd.

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 on practical training in industry. This course is in accordance with the recommendations of the Institution of Engineers of Ireland report on technician education and it is likely that successful students will 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/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.
TECHNICIAN COURSES—Contd.

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 Jig and Tool Design, Product Design, 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. Other details as for D/47A.

Fee £15 per annum.

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 should be employed at Engineering Work.

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/125.

DIPLOMA COURSE IN TRANSPORT TECHNOLOGY

The Diploma Course in Transport Technology is a comparatively new course and has a duration of four years.

The students attend the College from mid-September to the end of May where they spend some 28 hours per week.

To achieve a reasonable balance between theoretical and practical training it is considered desirable that each student should spend at least two months during the Summer vacation gaining experience of Transport Engineering or Plant Engineering or Industrial Engineering. The Student Engineering Society of the Department of Motor Engineering and the College Authorities assist in placing the students with firms for this training. Such firms normally pay the student engineers an allowance of £8 to £10 per week during the practical training period.

Progress will depend on 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 60% attendance at lectures.

Secondary School students interested in taking this Course at some future date are advised to discuss the matter fully with their parents and career guidance teachers to ensure that they are taking the correct subjects in the Leaving Certificate Course as would allow them to enter on this Engineering Course—their Leaving Certificate subjects should include Mathematics (Honours), English (Honours), and a pass in Physics or a Science Subject.

At present the annual fee for the Course is £50. The cost of the recommended textbooks will be approximately another £20 per year.

Subject to receiving confirmation of success in the specified subjects in the Leaving Certificate Examination (or in the case of students from overseas, an equivalent qualification) provisional application for a place on the Course may be made from April of each year. They may then expect to be called for interview early in September.

Subjects Include


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 Certificates, Block Release Course, with link correspondence course.

Duration of Course 11 weeks of 35 hours each week.


Entrance Qualifications Day Vocational Group Certificate or Intermediate Certificate.

D/128 AUTOMOBILE ENGINEERING


Duration of Course 2 years of 38 weeks each year.

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


Entrance Qualifications Day Vocational Group Certificate or Intermediate Certificate.

D/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 Stores 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.
The 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 course occupies three years: the first two are concerned with trade techniques, commercial knowledge, costing and estimating; the third year with administrative studies.

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

The age group for trainees is between 19 and 24 years, and the minimum educational qualification required is the Leaving Certificate. Students at the end of the first year will be required to pass the General Technical Knowledge and the General Commercial Knowledge Examinations of the British Federation of Master Printers.

Students at the end of the second year will be required to pass the Costing, Estimating and Printing Office Procedure Examinations of the British Federation of Master Printers.

Students at the end of the third year will be required to pass the Office Administration Examination of the British Federation of Master Printers.

A Diploma will be awarded to those, who, having attended the full course, have passed the examinations in all subjects.

Fee £15 per annum.

D/81  HIGHER PRINTING EDUCATION

This is a two-year block-release course of 12 weeks each year, with continuation evening classes for selected apprentices and young journeymen with the Senior Trade Certificate of the Department of Education—or its equivalent—who wish to prepare themselves for positions of responsibility in the industry.

Fee £20 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 1st and 2nd year apprentices.

D/188

STEREOTYPING AND ELECTROTYPING

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

D/190

COMPOSITORS' WORK
(Block release Course)

Consecutive courses of 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 Compositors' Work. An examination in each stage is set by the Department of Education at the conclusion of each course.

TRADE COURSES—Contd.

D/191

BOOKBINDING

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

D/195

FILM MAKE-UP AND KEYBOARD

Courses of 12-13 weeks' duration for trainees from industry.
TECHNICIAN COURSES

D/4C

PART-TIME COURSE FOR BUILDING TECHNICIANS

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

Subjects

First Year
Building Science; Building Construction and Services; Building Calculations; Principles of Structural Design.

Second Year
Building Science; Building Construction and Services; Building Calculations; Safety Regulations; Principles of Structural Design.

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

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

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

Entry Qualifications
The Secondary Schools Leaving Certificate, or equivalent.

Fee £10 per annum.
TRADE COURSES

PART-TIME DAY RELEASE COURSES FOR APPRENTICES

These courses involving attendance on one day per week are for apprentices in the Building, Vehicle Building, Furniture and Engineering Trades. Every facility is given to students who wish to enter for the Trade Certificate Examinations of the Department of Education or of the City & Guilds of London Institute. These examinations are conducted in the College at the end of the session. The courses are based on the examination syllabuses of these bodies. Generally, students take the Junior Stage of the Trade Certificate Examinations of the Department of Education after two years' instruction and the Senior Stage after a further two years. Apprentices attending appropriate Day Release courses are not required to pay a tuition fee.

D/102. Plastering.
D/105. Painting and Decorating.
D/111. Cabinetmaking.
D/112. Upholstery.
D/113. Woodfinishing.
D/121. Carpentry and Joinery.
D/122. Woodcutting Machinists' Work.
D/149. Sheetmetal Work.
D/150. Metal Fabrication.
D/151. Heating Fitting.
D/153. Plumbing.
School of Architecture, Surveying

+ Building

EVENING COURSES

E/3.

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 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).

These courses will be offered if there are sufficient applicants of a suitable educational standard.

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

Fee £10 per annum.

E/54.

STRUCTURAL DESIGN

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

Fee £10 per annum.

E/55.

ENGINEERING ADMINISTRATION

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

Fee £10 per annum.

E/56.

ENGINEERING MANAGEMENT COURSE

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

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

Course of Study

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

Fee £10 per annum.

TECHNOLOGICAL COURSES—Contd.

E/40.

GENERAL CERTIFICATE OF EDUCATION (GCE) COURSE

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

Ordinary Level

The following subjects may be offered:

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

Advanced Level

The following subjects may be offered:

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

Fee per annum:

- £7 10s. for four subjects.
- £1 10s. for each additional subject.
TECHNICIAN COURSES

CERTIFICATE ENGINEERING TECHNICIAN COURSE

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.
At the end of the Third year—Intermediate Stage.
At the end of the Fourth year—Advanced Stage.
At the end of the Fifth/Sixth year—Higher Technological Stage.

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

Fee £10 per annum.

CIVIL ENGINEERING TECHNICIANS

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.

Fee £10 per annum.

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.

Fee £10 per annum.

STRUCTURAL ENGINEERING DESIGN/DETAILING

This is a two-year non-qualifying course intended for those who have experience in structural drawing offices and who require further design and detailing instruction.

The entrance requirement is Leaving Certificate or equivalent.

Fee £10 per annum.

TECHNICIAN COURSES—Contd.

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.
TECHNOLOGICAL AND TECHNICIAN COURSES

E/43V. HEATING, VENTILATING AND AIRCONDITIONING

This is a two-year evening course to prepare students for the Part I and Part II examinations of the City & Guilds of London Institute—Heating, Ventilating and Airconditioning Technicians (339). It is a supplement to Course D/43V but may also be attended by students unable to obtain day release.

Fee £10 per annum.

E/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 the engineering 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/48. JIG AND TOOL DESIGN

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

Fee £10 per annum.

E/47. MECHANICAL ENGINEERING TECHNICIAN COURSE

This is a four-year evening course to prepare students for the examinations of the City & Guilds Institute for Mechanical Engineering Technicians Course 293). Students should have a suitable craft background and hold the Elementary Technological Certificate in Mechanical Engineering, GCE, Leaving Certificate or equivalent.

Fee £10 per annum.

E/45. AERONAUTICAL ENGINEERING TECHNICIANS

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

Fee £10 per annum.
TECHNICIAN COURSES

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.
Enterance Qualifications Day Vocational Group Certificate or Intermediate Certificate with Honours in certain specified subjects.
Fee £10 per annum.

E/50. REFRIGERATION ENGINEERING TECHNICIANS
This is a two-year course for Technicians employed in the refrigeration engineering industry. Suitable students are prepared for the 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 per annum.

E/51. INSTRUMENTATION AND CONTROL
This is a three-year course for students employed in Instrumentation who have reached the Intermediate Technological Standard in Mechanical Engineering.
Students are prepared for the 310 City & Guilds Part I and Part II examination in Instrumentation and Control.
Fee £10 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 per annum.

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.
Enterance 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.
Enterance Qualifications Department of Education Leaving Certificate or an equivalent qualification.
Fee £10 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
COMPOSITOR'S WORK
LETTERPRESS MACHINE WORK
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 10s. 0d. per annum.

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

E/83. APPLIED PRINTING
A 2-year course designed to provide those engaged in the Clerical and Administrative side of Printing with a general knowledge of the crafts involved in modern printing and of the materials and appliances used. Students who complete the course may enter the 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

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.

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. COSTING (PRINTING)

A course requiring attendance for two evenings each week designed to prepare students for the examination of the British Federation of Master Printers.

Fee £5 per annum.

E/84B. ESTIMATING (PRINTING)

A course requiring attendance for two evenings each week designed to prepare students for the examination of the British Federation of Master Printers.

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.

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.
TRADE COURSES

Evening courses for apprentices and journeymen are provided in the following subjects:

E/182. Bookbinding and Print Finishing.
E/183. Print Finishing for Female Employees of the Printing Industry.
E/184. Film Make-up Techniques for Photo Typesetting.
E/185. Linotype, Intertype Operating and Teletypesetting.
E/186. Monotype Caster Operating.
E/187. Monotype Keyboard Operating (this course will include instructions in Monotype Casting).

Fee £4 10s. 0d. per annum.

School of Trades
TECHNICIAN COURSE

E/1.

COURSE FOR BUILDING TECHNICIANS

The course is of four years' duration with attendance on three evenings of each week and is designed to prepare students for the Advanced Technological Certificate examinations of the Department of Education.

Subjects

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

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

Third Year
Building Construction and Services: Measurement and Price Build-up;
Land Surveying and Setting Out.

Fourth Year
Building Construction and Services: Measurement and Price Build-up;
Land Surveying and Setting Out.

Practical Experience

Students are required to be employed in the Building Industry.

Fee £10 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 Plumber's Work (Advanced) of the City & Guilds of London Institute or equivalent.

Fee £10 per annum.

TRADE COURSES

Evening courses, leading to the examinations conducted by the Department of Education, and the City & 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. Carpenter and Joinery.
E/122. Woodcutting Machinist's Work.
E/144. Patternmaking.
E/145. Foundrywork.
E/149. Metal-plate Work.
E/151. Heating Fitting.

Fee £4 10s. 0d. per annum.

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

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

External Examinations

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

1. Department of Education

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

(b) Technician Certificate Examinations in Engineering

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

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).

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

<table>
<thead>
<tr>
<th>Committee</th>
<th>Members</th>
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<tbody>
<tr>
<td>Architecture</td>
<td>F B Meehan MRIAI BArch</td>
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<td></td>
<td>H S Robson MSc BArch MRIAI AIBA</td>
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<td>D O'Toole FRSAI AMPTI</td>
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<tr>
<td>Architectural Technicians</td>
<td>Denis J McGloughlin MIAAT</td>
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<td>John M McCarthy MSAAT MIAAT</td>
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<td>Town Planning</td>
<td>L Carville DipArch (Liv) Dipl Civic Des (Liv) ARIBA AMPTI</td>
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<td>J Conway BE AMPTI</td>
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<td>G Meagher BComm DPA</td>
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<td>M O'Brien BE AMPTI</td>
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<tr>
<td>Mechanical Engineering</td>
<td>J Cassidy General Secretary National Engineering Union</td>
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<td>Trades</td>
<td>H T Hanlon Irish Engineering Industrial &amp; Electrical Trade Union</td>
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<td>P J Buckley Irish Engineering Industrial &amp; Electrical Trade Union</td>
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<td>F Gray Personnel Officer Coras Iompair Eiríann</td>
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<td>H Lennox General Manager Liffey Dockyard</td>
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<td>S O'Flaherty Managing Director Messrs Motor Distributors Ltd</td>
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<td>John Watt 57 Ranelagh Road Dublin 6</td>
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<td>T W Bamford Managing Director Universal Fabricators</td>
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<td>J C Tonge Tonge &amp; Taggart</td>
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<td></td>
<td>H Farrelly District Secretary United Society of Boilermakers and Iron</td>
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<td>and Steel Shipbuilders</td>
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<td>Heating and</td>
<td>Eoin O'Clonna BE MICIE AMIEE MIHVE MASHRAE MConsEl Hon</td>
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<td>Ventilating Engineering</td>
<td>Secretary The Association of Consulting Engineers of Ireland</td>
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<td></td>
<td>Noel Trayanor AMIHEE Hon Secretary The Association of Master Plumbers</td>
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<td>Heating &amp; Ventilating Engineers of Ireland</td>
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<td>Seamus Homan AMIHEE Design Engineer Varming &amp; Multahy</td>
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<td>Eamonn O'Brien c/o Roberts Jacob Consulting Engineers</td>
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<td>Reginald Keating GHVE Hon Secretary The Association of Design Engineers</td>
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<td>&amp; Draughtsmen</td>
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### ADVISORY COMMITTEES—Contd.

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<tr>
<th>Surveying+ Building Technology</th>
<th>Royal Institution of Chartered Surveyors</th>
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<td>G M Costello FRICS</td>
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<td>D Bailey FRICS FAI</td>
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<td>H C Tierney FRICS</td>
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<td>T L Sudway ARICS</td>
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<th>Institute of Quantity Surveyors</th>
<th>B V Boyle FIQS</th>
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<td>J Pettit AIQS</td>
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<td>N Power-Smith AIQS</td>
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<th>Institute of Building</th>
<th>J Jennings FIOB</th>
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<td>J McCormack FIOB</td>
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<td>D McIvenna FIOB</td>
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<td>L Thompson BAI MICE FIQOB</td>
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<tr>
<th>Construction Surveyors' Institute</th>
<th>John J Barrett PPCSI AIOB</th>
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<td>J Cullerton 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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| Incorporated Association of Architects and Surveyors | Stanley J Coglin FIAS FIARB |

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<tr>
<th>Bricklaying</th>
<th>Denis Murray Master Builders' Association</th>
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<tr>
<td></td>
<td>Brick+Stonelayers' Society</td>
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<td></td>
<td>Francis O'Connor</td>
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<td>James Farrell</td>
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<tr>
<th>Carpentry</th>
<th>Amalgamated Society of Woodworkers</th>
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<tr>
<td>Joinery</td>
<td>James Carroll</td>
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<tr>
<th>Woodcutting</th>
<th>Irish National Union of Woodworkers</th>
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<tr>
<td></td>
<td>William Joyce</td>
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<td></td>
<td>Gerard Wall Secretary Irish Society of Woodcutting Machinists</td>
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<td></td>
<td>J G McCormack Master Builders' Association</td>
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<td>H R Armstrong Messrs Brooks-Thomas &amp; Co</td>
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### ADVISORY COMMITTEES—Contd.

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<tr>
<th>Furniture Trades</th>
<th>D McCarthy O'Dea &amp; Co Ltd</th>
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<td>P F McGrath Irish National Union of Woodworkers</td>
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<td></td>
<td>J Carroll Amalgamated Society of Woodworkers</td>
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<td></td>
<td>G L Wall Irish Society of Woodcutting Machinists</td>
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<td></td>
<td>J R Hunter J R Hunter &amp; Co Ltd</td>
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<td></td>
<td>W Robinson National Union of Furniture Trade Operatives</td>
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<tr>
<td></td>
<td>52 Peter's Hill Belfast 13 Northern Ireland</td>
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<tr>
<td></td>
<td>P Marrey Furniture Manufacturer 20a St Joseph's Parade Dublin 7</td>
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<tr>
<th>Plastering</th>
<th>Operative Plasterers' Trade Society</th>
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<tr>
<td></td>
<td>Gerard Doyle</td>
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<td>T Byrne M Creedon Ltd 3 Ardee Road Dublin 6</td>
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<tr>
<th>Plumbing</th>
<th>Association of Master Plumbers Heating &amp; Ventilating Engineers of Ireland</th>
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<td>P J Clonan</td>
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<td>J B Doherty</td>
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<td>P J Duffy</td>
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<td>C Jones</td>
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<td>J N Traynor</td>
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<td>T Harrington</td>
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<tr>
<th>Plumbing Trades' Union</th>
<th>P Ferris</th>
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<td>A Harmon</td>
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<td>T King</td>
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<td>J Laffin</td>
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<td>T Russell</td>
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<td>M Jackson</td>
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<td></td>
<td>H Samway</td>
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<tr>
<td></td>
<td>G J Roberts Coach and Motor Body Builder 3A Lower Grangegeorman Dublin 7</td>
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<tr>
<td></td>
<td>M F Gavigan c/o R Callow &amp; Sons Ltd Westland Row Dublin 2</td>
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<tr>
<td></td>
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<td></td>
<td>Capt P G McCabe Aeronautical Officer Aviation Division Department of Transport &amp; Power</td>
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ADVISORY COMMITTEES—Contd.

Motor Engineering

A McAuley BSc Assistant Mechanical Engineer (Road) CIE

Society of Irish Motor Traders
Charles Warren

Automobile General Engineering and Mechanical Operatives’ Union
B Leonard General Secretary
P Thewlis

Irish Engineering Industrial and Electrical Trade Union
J Drennan
M Geoghegan

Robert J Porter Messrs R W Archer & Co Ltd
Patrick Flanagan Messrs McCaInns Motors Ltd
John Keeney LSE Motors Ltd
Maurice Foley Institute of the Motor Industry

Structural Steelwork

L O’Neill National Engineering Union 33 Gardiner’s Place
P Dunne Irish Transport & General Workers’ Union
J D Pearson Smith & Pearson Ltd
A Davidson Kennan & Sons
D Purdy Smith & Pearson Ltd

Irish Engineering Industrial & Electrical Trade Union
J A Coffey

Printing + Book Production

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

Irish Master Printers’ Association
W D Britton
M Kavanagh

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

ACADEMIC STAFF

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

Department of Architecture +
Assistant Head : Liam O’Keeffe MRIAI ARIPA

Department of Architecture +
Assistant Head : Liam Carlin MRIAI ARIPA

Whole-time Staff
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M Brogan ARIPA MRIAI
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J B Gilroy DipArch MRIAI
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P Kerrigan DipArch ARIPA
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T O’Beirne
W J O’Brien
Ciaran O’Carroll BArch MRIAI
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S O’Connor
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Martin Ridge DipArch MRIAI
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A Gibney DipArch MRIAI
P B D Groves FRIBA

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Assistant Head : Liam O’Keeffe MRIAI ARIPA
ACADEMIC STAFF—Contd.

Department of Surveying  Building  Technology

Head of Department: Christopher W Parfitt FRICS FIIOB FRSH FIARB
Assistant Head: Eanna de Burca FRICS
Assistant Head (Urban Economics): Laurence Liddle MA FRICS

Whole-time Staff
John Barnett ARICS MIMin FGS
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J H McFarlane FAI

External Examiners
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James Good BE FRICS
Robert Francis Lane BSc FRICS
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Assistant Head: Denis Fitzgibbon BE MSc CEng IMechE

Head of Department: Denis Fitzgibbon BE MSc CEng IMechE
Assistant Head: Michael O'Donnell MEconSc BE BComm CEng MIProdE MIEI

Whole-time Staff
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A O Dunlaing BE MEngSc
Richard F O'Leary
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Dermot Walls BE
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Extern Lecturers & Examiners
Professor F Koenigsberger DSc FI MechE MemASME FI ProdE Professor
of Machine Tool Engineering University of Manchester
Professor Ford DSc(Eng) PhD FI MechE MICE FRS Head of the
Department of Mechanical Engineering and Professor of Applied
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Department of Science +
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Head of Department: James A Nunan BSc HDipEd
Assistant Head: Gerard Lawlor MSc

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Thomas Conway BSc HDipEd
Jeremiah T Cotter MSc
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John Kearns
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Assistant Head: Michael Forde A & C Licences

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James Donohoe AME
Alberic Doody AME

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Thomas Murphy
Donal O'Meara
Andrew O'Neill AME
Sean Staunton
Robert Stuart
Frank J Walsh
Douglas Wilson
Patrick Whyte

Department of
Automobile
Engineering

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Assistant Head: Richard Dowling MIMI

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Alan Harbron SIMT TechDip
T J Kernan FTC (C & G)
Michael Kelly SIMT TechDip MIMI
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John C Fitzpatrick
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John Gribben
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Michael Long
Sean J Loughran
Bernard E McGee
Donal McConnell GradMechE
John McNamara
Desmond Maguire
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Michael C Quirke
John Monaghan
Patrick Morgan
Patrick Murray
John Newman
John O’Gorman GradIMI
Michael O’Neill GradIMI
G Pello AMInstF
Eamon V Staunton
Anthony Tobin
John Wilcox

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Assistant Head : Brendan Rooney, Final C&G AWeldl

Whole-time Staff
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Joseph N Bernie Final C & G
Thomas Colley Final C & G
Albert Byrne Final C&G
Wm Jackson Final C & G
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James Bryan Final C&G
Francis Byrne
William F Carroll

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Joseph Cross Final C & G
Vincenz Davenport MS X-rayT MWeldl
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Noel Dunne Final C&G
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Kenneth Eng MA MWeldl
Michael C Foran
Henry Greggsbey
Henry Higgins Final C&G
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Noel Mullen AWeldl
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William Phillips Final C&G
Anthony Redmond Final C & G
James J Russell Final C & G

Nicholas Murray Final C(LG)
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Head of School : J B Hickey BA

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(Bricklaying and Masonry Furniture Plastering Painting and Decorating Vehicle Building Vehicle Trimming and Vehicle Painting)
Head of Department : Robert C Grimes FTC (C & G)
Head of Furniture Division : Michael C Murray Hons C & G

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Frederick Hosford
Joseph Lawlor
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’

(Carpentry and Joinery and Woodcutting Machinery)
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 ACSI LIoB
Aidan Halpin ABICCC Final C & G
James Kelly Final C & G
Patrick Kelly Final C & G
Thomas Kiernan FTC (C & G)
Michael McDonnell
John McGuirk

Department of Metal Fabrication

As in School of Engineering.

ACADEMIC STAFF—Contd.

School of Printing + Book Production

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

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 hEifearnain 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
Bernard Culligan
Ciaran Donaghy BA BComm
T Halpin BA
P Horan
Bartholomew Hempton
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Patrick Corbally
G A Lynch
William Kelly
Michael John Kennedy
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Allan McLeod-Martin ACCS
B McCarthy
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Kevin B Walsh
J Murphy
E Horan
C Andrews
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Rev Brian Scallan SJ
Rev Bernard Coleman OFM
Rev Rory O'Leary OFM
Rev Brendan Forde OFM

PHYSICAL EDUCATION

Michael C Doogan

LIBRARY

Donal J Kennedy

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