1976

College of Technology, Bolton Street Prospectus 1976-77

City of Dublin Vocational Education Committee

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CALENDAR—SESSION 1976/77

SEPT. Wednesday 1st Commencement of Session.
Monday 6th Interviews for Whole-time Day Courses commence
(Applicants will be notified of the exact date and time of
interview).
Monday 13th Interviews and enrolments for Part-time and Evening
Courses commence.
Monday 27th Whole-time courses commence except where otherwise
arranged.
Evening Classes commence.

OCT. Wednesday 20th Votive Mass. All classes closed.
Friday 29th Mid-Term Break. All classes closed.

NOV. Monday 1st Mid-Term Break. All classes closed.

DEC. Wednesday 8th Holyday. All classes closed.
Wednesday 22nd Final class meetings before Christmas vacation.

JAN. Monday 10th All classes resume after Christmas vacation.

MAR. Thursday 17th Public holiday. College closed.
APR. Tuesday 5th Final class meetings before Easter vacation.
Evening classes terminate except where otherwise
arranged.
Monday 18th Day classes resume after Easter vacation.

MAY. Thursday 19th Holyday. All classes closed.
Friday 27th Classes for Whole-time courses terminate.

JUNE Monday 6th Public holiday. College closed.
Thursday 9th Holyday. All classes closed.

DAY RELEASE COURSES FOR APPRENTICES
1977—JUNE 24th Classes end.

BLOCK RELEASE COURSES FOR APPRENTICES (Eleven Weeks each)*
Term 1—SEPT. Tuesday 28th Classes commence.
DEC. Friday 10th Classes end.

Term 2— JAN. Tuesday 11th Classes commence.
MAR. Friday 25th Classes end.

Term 3— APR. Tuesday 19th Classes commence.
JULY Friday 1st Classes end.

*Note: Courses for Apprentice Printers are of 13 weeks duration beginning on
September 20th 1976, January 10th and April 18th 1977.
The College is closed on all Public Holidays not specified above.
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COLLEGE COUNCIL

Mr Patrick Donegan (Chairman) 121 Shanard Road Santry Dublin 9
Dr John D Barry Principal
Mr Joseph N Bernie Teaching Staff Representative
Mr Thomas Bridgeman “Treetops” Swords Road Dublin 9
Alderman Kevin Byrne 62 St Mary’s Road East Wall Dublin 3
Mr Anthony Harkin 52 Farney Park Dublin 4
Mr J C O’Grady 18 Greenmount Road Dublin 6
Rt Rev Mgr J O’Regan STL PP Sandymount Dublin 4
Mr Michael Scott 19 Merrion Square Dublin 2
Professor David Simms Trinity College Dublin 2
Mr. Naoise O’Hannain Students’ Union Representative
Professor William Wright Trinity College Dublin 2
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INTRODUCTION

Historical Note: In 1887 the first City of Dublin Technical School was established, and from this initiative the present system of schools and colleges later developed. The College building in Bolton Street was opened in 1911 and provided for education in Building, Engineering and Printing, lines of specialisation which have continued down to the present day.

The first whole-time day courses commenced in 1920 with the inauguration of the Apprentice Scholarship Scheme. With the establishment of an Irish Government, technical education came within the province of the Department of Education and a Commission set up in 1926 made recommendations on development which led to the Vocational Education Act of 1930. The system of schools and colleges expanded in succeeding decades under the City of Dublin Vocational Education Committee, and the Bolton Street College was enlarged by new buildings in 1958 and 1963.

The development of professional and technician courses began in the 1940's and these over the years gained the recognition of professional and vocational bodies in Ireland and other countries. The College now accommodates full-time and part-time courses in apprentice, technician and technological education.

City of Dublin V.E.C.: The College operates under the City of Dublin Vocational Education Committee. It is responsible for the provision of educational programmes and for the overall administration of the College and is assisted by a number of committees, including the Joint Academic Council, the Board of Studies, the Building Committee and Planning Sub-Committee. The Principal or his nominee represents the College on these Committees.

There are also Advisory Committees for major disciplines which assist the V.E.C. and the College in keeping courses abreast of developments in the professional and industrial fields.

College Council: The general direction of the affairs of the College is under the control of the College Council which is a sub-committee of the V.E.C. The Council consists of nine members nominated by the V.E.C., the Principal of the College, a member of academic staff elected by the staff and one student member nominated by the Students' Union. It's terms of reference include approval of annual estimates of expenditure, approval of the nature and range of courses offered, appointment of staff, responsibility for buildings and other facilities and generally examining any major proposals for development of the College.

The Academic Board: The Academic Board has responsibility for the College academic programmes. It comprises the Principal, the Heads of Schools and the Heads of Departments of the College.

Departmental Boards: Departmental Boards comprised of staff and student representatives are concerned with development of Departments' courses and facilities. There are also Course Committees to advise on development of major courses.
GENERAL INFORMATION & REGULATIONS

Applications: Applications for admission to wholetime courses should be submitted not later than 30th June, 1976, on the form obtainable from the Secretary. Documentary evidence of qualifications should accompany all applications. Candidates awaiting results of examinations should make provisional application. Results should be forwarded in support of applications as soon as they become available. In the case of part-time and evening courses it is not necessary to make application for admission in advance of the enrolment date for the course.

Admission and Enrolment: Before acceptance of an application for admission to classes or courses the applicant must attend in person for interview and the College must be satisfied as to his ability to benefit from the proposed courses or classes. The College may require an applicant to sit an aptitude or other test before admission. Successful applicants for wholetime courses will be notified in writing during the week commencing 20th September, 1976, and invited to register for the course immediately. Students attending for registration and enrolment are required to have the following:

(a) Letter of acceptance for the course (only required in the case of students for wholetime courses).
(b) Two copies of a recent photograph of passport type and size.
(c) Tuition fees for the course or a letter from a Local Authority or other recognised body confirming that it will be responsible for the payment of tuition fees.

In the session 1976/77 the latest date for admission of students to classes commencing in the first term is 31st October, 1976. Only in exceptional circumstances and subject to the additional payment of a late fee of £5.00 will applicants be admitted after that date.

All new students will be issued with an Identity Card. Students who were enrolled in the College in previous sessions must present the Identity Card previously issued to them for re-endorsement for the new session. The Identity Card is the property of the College and may be demanded by the College or its officers at any time. Students are therefore required to have their Identity Cards with them while in College. A charge of £1.00 will be made for replacement of Identity Cards and new photographs will be required.

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

Change of classes or courses may be made only with the consent of the Head of Department.

Fees: Fees are payable on enrolment and are not refundable except where a class or course does not form. An enrolment is not transferable from one student to another.

The sole proof of enrolment in any class or course in the College is the official receipt for the class or course fees paid. The official receipt must be presented on first attendance at each class.

Grants and Scholarships: (a) Local Authorities are empowered to make Higher Education grants to eligible students to enable them to pursue courses of higher education at the College.

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

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

Students normally resident in the City of Dublin and who wish to compete for a scholarship from the City of Dublin Vocational Education Committee should complete the official application form. These forms are available from the College Secretary/Registrar or from Heads of Departments.

Please note that the section on the application form which refers to documentation on public examinations and course acceptance must be signed by an authorised member of the College Staff.

The CLOSING DATE for applications to the City of Dublin Vocational Committee is WEDNESDAY, 6th OCTOBER, 1976.

(c) AnCO, the Industrial Training Authority, offers a number of scholarships and grants each year to those pursuing Technician courses in the Engineering and Construction fields. Information on the scholarships and grants are available from AnCO, Box 456, Baggot Court, Dublin 2.

(d) Ivan Webb Scholarship: The Construction Industry Federation and the Master Builders Association have established a scholarship fund to commemorate the late Ivan Webb, a former Council member of both bodies who was killed in the Stansted air disaster. The object of the scholarship fund is to assist students in pursuing part-time Higher Construction Technician Courses in the College and are awarded on the following basis:

One scholarship valued at £500 to the student attaining the highest place in the results of the year's work and examinations in the First year of the Full-Time Course.
Examinations

The College conducts its own examinations for a number of the professional and technician courses. These are moderated by external examiners and lead to College awards. The College also offers courses leading to examinations and awards of external bodies for which it is an approved examination centre. Students are required to acquaint themselves with the examination and promotion regulations of the course which they take.

College Examinations

Examinations are held at the end of each session or stage and are regulated by the College Academic Board and the Examination Board.

An examination fee of £5.00 is payable in respect of College sessional examinations.

The closing date for receipt of College Examination fees is 31st January, 1977. In exceptional circumstances and at the discretion of the College Examination Board, a candidate may be allowed to enter for a College examination up to 31st March, 1977, subject to the additional payment of a late fee of £5.00.

Promotion to a higher year or stage in any subject is contingent on reaching the required standard in the sessional examination in the lower grade.

A candidate unsuccessful in a sessional examination may be permitted to sit a supplemental examination in relation to the same session where such is offered in accordance with the regulations established for his course. Candidates may sit for one such supplemental examination without payment of a further fee. Candidates who do not complete an examination in all subjects of the year or stage or who are required to submit additional work (e.g., project or thesis) to the Examination Board for assessment before graduation or promotion to the next year of the course, must re-sit for that examination before 31st January, 1977, and pay the appropriate fee.

No student shall be admitted to the examinations who has not made at least 75% of the possible attendance, except in special circumstances and at the discretion of the Head of Department. Students are required to submit regularly such project work and course work as may be prescribed by members of the academic staff and this will be taken into account in the assessment at the end of the session.

A laboratory notebook must be maintained by each student of a laboratory class; an assessment will be made at the end of session of each student's progress in the laboratory techniques and experimental ability which will count in the sessional examination in that subject.
The College is a centre for a number of external examinations including the General Certificate of Education of the University of London, the Department of Education, the City & Guilds of London Institute. Application for entry to these examinations must be made through the College Office in accordance with the closing dates as indicated on College Notice Boards.

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 the necessary applications and provide all documents that may be required.

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

The NCEA was established by the Government in 1972 for the purpose of awarding qualifications to technicians and technologists attending non-university institutions. Already some engineering students have been awarded National Certificates and Diplomas and submissions have been made by the College seeking awards in respect of a number of other courses.

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.

The Vocational Education Committee may expel any student without refund of fees, for irregular or unpunctual attendance or for any other reason which in the opinion of the College, justifies expulsion. Three successive absences from any class may lead to suspension from the entire course, unless a satisfactory written explanation is submitted to the Head of Department.

Students must provide themselves with such books, instruments and equipment (including special clothing) as their classes may, in the opinion of the College, require.

Students are required at all times to obey the lawful instructions of lecturers and other members of the College staff. Misconduct in the College or its grounds may lead to suspension or expulsion. All lecturers are authorised to enforce immediate disciplinary measures in respect of students whom they find violating the regulations of the College or otherwise misconducting themselves. The full co-operation of each student is invited in order to maintain the dignity and discipline of the College.

Students are liable for the cost of repair or replacement of any College property damaged by them.

Students are not permitted to smoke in the College classrooms, Laboratories, Lecture theatres, workshops, library or gymnasium.

Parking of pedal and motor cycles in the space provided in the College grounds is normally permitted. Students are not permitted to bring cars into the College parking area.

Students are permitted to use the facilities of the College including the Gymnasium, on the understanding that they do so at their own risk. Though all reasonable care is taken, the College accepts no liability for student property lost, stolen or damaged on the College premises or grounds.

Locker accommodation is available for a considerable number of students on payment of a fee of £3.00 per session. This includes a deposit of £2.00 returnable only if the locker key is surrendered within seven days of the expiry of the period for which the locker has been granted, i.e., before 15th June, 1977.

Office Hours: 9.00 a.m. to 12.45 p.m. and 2.15 p.m. to 5.00 p.m. 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 staff will not be available for interviews or consultations except by prior appointment.

The College Canteen is open throughout the session for lunches, teas and morning and afternoon snacks.

The Library plays a vital part in the academic structure and programmes of the College. It provides a comprehensive information service, and study facilities for students and staff. While the emphasis in the book collection is on the major college disciplines, there is a gradual build-up of other subject areas. A phased development plan at present under way will increase the total stock from the existing 20,000 volumes to 25,000 volumes by 1977. The Library also receives 500 current periodicals.

The Library maintains close links with the City of Dublin Public Library system of which it forms part and it has access to the total holdings of that system. It also has close links with the Libraries of An Foras Forbartha, the Institute for Industrial Research & Standards, the Universities and other Research Institutes both here and abroad. Through these links photocopied material and books on Inter-library loan may be quickly obtained. By arrangement facilities may also be provided for staff and senior students to use these libraries for research purposes.
The Library contains an open access stack area, a periodicals and reference area and a reading area which provides seating for 200 readers.
A lending scheme is in operation for all books. There is a coin operated photo-copying machine in the library for the use of readers.
First year students are given introductory lectures on the use of the library by the librarian. Library publications include a current list of periodicals and a monthly accessions list.
Hours of opening:
In Term Monday to Friday 9.30—21.30 Saturday 9.30—13.00
Summer Term Monday to Friday 9.30—21.30 Saturday 9.30—17.00
In Vacation Monday to Friday 9.30—17.30.

The Students' Union
The Students' Union is the students' representative body in the College. Every student becomes a member of the Union on enrolment.
The Union is democratically based and it is dependent for its effectiveness on the involvement of its members. It is administered by an executive which is elected by the student body.
The Union President is a full-time sabbatical officer with a wide range of tasks and responsibilities.
Each class in the College elects a representative to the Students’ Union Council. In addition College Societies and the Union Executive are represented on the SUC and it is a forum for discussion and decision making.
The ultimate decision-making body of the Union is the General Meeting which is a meeting of the whole student body.

Functions of the Union:
1. To represent the views of its members.
   This the Union does at College level by representing the students on the College Council, Library and Canteen Committee and other bodies.
   It represents its members' views at national level through the Union of Students in Ireland.
2. To provide recreational and social facilities for its members.
   These include lunchtime concerts, parties, dances, and guest speakers. The Union also maintains a comfortable Common Room where students may meet, have discussions or just relax.
   The College Societies are also under the umbrella of the Union and, as well as parties, they organise trips, lectures and concerts.
   The Sports' Council acts as the co-ordinating body for the many sporting activities in the College.
3. To provide services for members.
   The Student Shop (D1) provides stationery, newspapers, sweets, drawing equipment and textbooks. It also issues International Student Identity Cards and provides information on student travel.
   Union Offices: Room A51.

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

The Architect is responsible for the design and supervision of building projects.

The Construction Economist, according to his specialisation, may be concerned, as quantity surveyor, with projects, economics or with the management of the building operation.

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

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

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

D1. DIPLOMA COURSE IN ARCHITECTURE
This is a five-year whole-time course leading to the Diploma in Architecture. Graduates from the course become eligible for membership of the Royal Institute of the Architects of Ireland after they have completed the requirements relating to practical experience and professional practice. Success in the Third Year gives exemption from the Intermediate Examinations of the Royal Institute of the Architects of Ireland.

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. All subjects must be passed in any year of the course before a student can be considered for promotion to the next year of the course.

Entrance Standard
The minimum preliminary educational qualifications required for direct entry, subject to interview and suitability assessment by the Interview Board, are:
(a) The Department of Education Leaving Certificate with not lower than Grade D in a minimum of four subjects and at least two other subjects at Grade A, B or C on the Higher Level Course or
(b) The General Certificate of Education with not lower than Grade D in four subjects and at least two other subjects at Advanced Level or
(c) Equivalent qualifications (i.e., Matriculation of the National University of Ireland). Note: Subjects must include Mathematics and English.

Subjects of Instruction are
First Year
Studio Work; Building Construction and Materials; History of Architecture; Theory of Architecture; Mathematics and Statistics; Mechanics; Physics; Chemistry; Geometry; Craftwork.

Second Year
Studio Work; Theory of Architecture; Irish Art and Architecture; Art and Civilization; Building Construction and Materials; Building Services I; Theory of Structures; Physics; Chemistry.

Third Year
Studio Work; Theory of Architecture; History of Town Planning; Interior Design; Building Construction; Building Practice; Building Services II; Building Materials; Structural Engineering; Surveying and Levelling; Computer Studies.

Fourth Year
Studio Work; Theory of Architecture; History of Architecture; Building Construction; Structural Engineering; Professional Practice; Interior Design (including Furniture design); Town Planning Theory; Urban Design (including Sociology); Economics and Cost Control; Landscape Design; Computer Studies.

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

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

Fee £53.00 per annum.

D6. URBAN DESIGN (POST GRADUATE).
Commencement of course is subject to additional accommodation and finance being available to the College.

D8. ARCHITECTURAL TECHNICIAN CERTIFICATE COURSE
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 Technician membership of the Royal Institute of Architects of Ireland, for Associate membership of the Institute of Architectural and Associate Technicians and for membership after two years of practical experience. The course extends from October to May.

Entrance Requirements
The minimum preliminary educational qualifications required for direct entry, subject to interview and suitability assessment by the Interview Board, are:
(a) The Leaving Certificate of the Department of Education in at least five subjects or
(b) The Matriculation Certificate of a recognised University or
(c) The General Certificate of Education.

Note: Subjects must include Mathematics and English. Applicants holding the above qualifications will be asked to attend for an aptitude/suitability test. Those who score well in the test will be called for interview in September after which the places available on the course will be allocated.

Course of Study
First Year

Second Year
Building Construction, Building Materials, Structures, Surveying and Levelling, Building Services, Pre-fabrication and System Building, Joinery and Projects.
Technological and Technician Courses

Third Year
Building Technology, Building Materials, Structures, Building Services and Specifications, Contracts and Architectural Practice.

Examination and Other Requirements
Progress to successive years of the course is decided on the basis of the student's work during the session and success in the College sessional examinations. Students are required to gain approved practical experience in professional offices during the summer vacations.

Fee
£38 per annum.

D10.

PLANNING TECHNICIAN CERTIFICATE COURSE
Commencement of course is subject to additional accommodation and finance being available to the College.

D3.

DIPLOMA COURSE IN ENVIRONMENTAL ECONOMICS
This is a four-year whole-time course leading to a Diploma in Environmental Economics. It is designed for those who wish to work as Valuers, Estate Agents, Property Advisers, Developers and Planners in either private or public employment. Holders of this Diploma are exempted from all academic examinations leading to Corporate Membership of the Royal Institution of Chartered Surveyors, (Valuation, Estate Agency and Planning Division) and from the Intermediate examination of the Royal Town Planning Institute. The course is also recognised by the Irish Auctioneers' and Valuers' Institute, Holders of the Diploma in Environmental Economics are accepted for entry to appropriate University Post Graduate courses in Ireland and abroad.

Course of Study
First Year
Mathematics; Environmental Science; Accountancy; Economics; Principles of Valuation; Construction Technology; Introduction to Environmental and Construction Law; Professional Development.

Second Year
Applied Valuation; Introduction to Planning; Applied Economics; Environmental Law (Property); Local Government; Construction Technology; Land Surveying; Applied Statistics; Computer Usage and Applications; Local Administration and Housing.

Third and Fourth Years
Applied Valuation; Theory and Application of Planning; Environmental Law (Property, Administrative); Urban Economics; Taxation; Building Maintenance; Investment Analysis; Urban Sociology; Plan and Photo Applications; Professional Practice and Procedure; Management of Property.

The third year of the course is project based and examined by continuous assessment. In the fourth year, students prepare a major dissertation as part of their final Diploma examination.

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

Entry Qualifications
Entry to the course is by selection following interview of those applicants holding the following minimum qualifications:

(a) The Secondary Schools Leaving Certificate in at least six subjects including Mathematics and English with a minimum Grade C in two subjects at Higher Level
OR
(b) The Matriculation Certificate of a recognised University
OR
(c) The General Certificate of Education with a minimum of two subjects at Advanced Level and four subjects at Ordinary Level including Mathematics and English Language or Literature.

Fee
£33.00 per annum.

D4.

DIPLOMA COURSE IN CONSTRUCTION ECONOMICS
This is a four-year whole-time course leading to a Diploma in Construction Economics and is designed for those who wish to work as Quantity Surveyors, Economic Advisers in the Construction Industry, Building Development Co-ordinators and Building Managers. Holders of this Diploma are exempted from all academic examinations leading to Corporate Membership of the Royal Institution of Chartered Surveyors' (Quantity Surveying Division) The Institute of Building, The Institute of Quantity Surveyors and the Construction Surveyors' Institute. Holders of the Diploma in Construction Economics are accepted for entry to appropriate University Post-Graduate courses in Ireland and abroad.

Course of Study
First Year
Mathematics; Environmental Science; Accountancy; Economics; Principles of Measurement; Construction Technology; Introduction to Environmental and Construction Law; Professional Development.

Second Year
Quantities; Cost Accountancy; Applied Economics; Construction Law Land Surveying; Applied Statistics; Construction Technology; Computer Usage and Applications.
Third and Fourth Years
Construction Technology; Building and Civil Engineering Quantities; Construction Law; Financial Management; Site and Production Management; Building Economics; Contract Administration.

The third year of the course is project based and examined by continuous assessment. In the fourth year students prepare a major dissertation as part of their final Diploma examinations.

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

Entry Qualifications
Entry to the course is by selection following interview of those applicants holding the following minimum qualifications:
(a) The Secondary Schools Leaving Certificate in at least six subjects including Mathematics and English with a minimum Grade C in two subjects at Higher Level
OR
(b) The Matriculation Certificate of a recognised University
OR
(c) The General Certificate of Education with a minimum of two subjects at Advanced Level and four subjects at Ordinary Level including Mathematics and English Language or Literature.

Tuition Fee £38.00 per annum payable on enrolment.

CONSTRUCTION TECHNICIAN CERTIFICATE COURSE
This is a three-year full-time course leading to a Higher Technician Certificate in Construction and is designed for those who wish to work at middle management level in the Building Industry. The course is recognised by the City & Guilds of London Institute for purposes of the award of their Higher Construction Technicians' Diploma. Holders of this Certificate qualify for Licentiateship of the Institute of Building, Building Surveyors' Institute and Construction Surveyors Institute and Technician membership of the Incorporated Association of Architects and Surveyors.

Course of Study
First Year
Communications; Land Surveying; Mathematics; Environmental Science; Accountancy; Quantities and Specifications; Construction Technology.

Second Year
Law and Administration; Land Surveying; Construction Technology; Quantities; Estimation and Price Build Up.
Technological and Technician Courses

Third Year
Law and Administration; Construction Technology; Quantities; Variations; Management.
Full-time students are required to gain industrial experience during the summer vacation.

Entry Qualifications
Entry to the course is by selection following interview of those applicants holding the following minimum qualifications:
(a) The secondary schools Leaving Certificate in at least five subjects including Mathematics OR
(b) The Matriculation Certificate of a recognised University OR
(c) The General Certificate of Education.

CONSTRUCTION TECHNICIAN COURSE—PART-TIME

The above course is also available on a day release basis involving attendance on one day and two evenings per week for a period of four years. Entry to this course is open to those holding:
(a) Senior Trade Certificate, Leaving Certificate in at least five subjects or equivalent,
(b) Appropriate employment in the Construction Industry.

Fees: £16.00 per annum,

SHORT-TERM COURSES
Short-term Courses in the Building and Project Management area will be held during the session. These will be advertised in the National Press.

School of Engineering

The School of Engineering encompasses five departments within the College—Engineering Technology, Automobile Engineering, Aeronautical Engineering, Mathematics and Science, and Engineering Trades.

The academic work engaged upon within the school ranges from craft to full professional level. It is the School's policy to provide an integrated system, horizontally in the range of technologies and vertically in their levels. In this way it is hoped that all students will find courses suitable to their needs and abilities. Opportunities for transfer or promotion to related disciplines are provided.

The School maintains close links with industry through direct contact with employers, through vacation training, project work and research activities. The links with professional institutions are strong and there is a conscious awareness of modern needs in technological education and training.

Most of the professional engineers who graduate annually enter employment in Irish manufacturing or process industries or consultancy practices where their thorough preparation enables them to make a useful contribution immediately. Some continue to post-graduate work at home, or abroad in Britain, Canada, or the United States.

The College is aware of the growing need for technicians in Ireland and in recent years has developed a number of new courses to meet the deficiencies which existed. The demand for technician graduates continues to expand and such courses offer very attractive prospects to young people in search of interesting careers.

The Evening School continues to form an important part of the Engineering School's activities. Programmes are kept under review and every attempt is made to assist technical personnel to keep abreast of the latest advances and new technological developments.

All applicants who meet the minimum specified educational requirements for entry are interviewed shortly before the commencement of the course in September. As the accommodation of the College is limited it is regretted that in many cases only some of the applicants can be accepted.
TECHNOLOGICAL AND TECHNICIAN COURSES

D40.

PRELIMINARY ENGINEERING COURSE
This is a one-year whole-time course commencing each year about mid-September. Its purpose is to prepare suitable students for entry to the Professional Engineering Courses D42M or D42S or for positions as trainee technicians in the Engineering industry.

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

Course of Study
The subjects studied are: Mathematics, Mechanics, Engineering Technology, Physics, Chemistry, Engineering Drawing, and Liberal Studies.

Examinations and Other Requirements
Students are required to:
(a) take a College examination at the end of the session;
(b) present laboratory notebooks and project work reports to the satisfaction of the College authorities.

Fees
Tuition fee: £38 per academic year payable on enrolment.
Examination fee: £5 payable in January.

D42M.

PROFESSIONAL COURSE IN ENGINEERING MECHANICAL AND PRODUCTION ENGINEERING
This is a four-year full-time course which prepares young people with a suitable aptitude and educational background for a career in Mechanical or Production Engineering and particularly for employment in manufacturing and process industries.

Entrance Requirements
(a) Leaving Certificate of the Department of Education in six subjects with Grade C or better in the higher course in Mathematics and a Science subject (preferably Physics), and a pass in four other subjects OR
(b) Such other qualifications as the College may deem to be equivalent.

Course of Study
First Year—Mathematics, Applied Maths, Engineering Drawing, Engineering Technology, Physics, Chemistry, General Studies.
Second Year—Mathematics, Principles of Electricity, Mechanics, Thermodynamics, Fluids, Drawing, Physics, Production Processes, Complementary Studies, Workshop and Laboratory Work.

Final Year—Mechanics of Materials, Mechanics of Machines, Engineering Design, Electrotechnology, Mathematics and Computer Applications and Management Studies, together with two other subjects Thermodynamics and Fluids (Mechanical option), or Production Technology and Analysis of Manufacturing Systems (Production option).

In the Final Year, students are also required to carry out an individual design or research project and to submit a thesis on the work undertaken.

Examination and Other Requirements
Progress to successive years of the course is decided on the basis of the student's work during the session, and success in the College sessional examination. It is an essential requirement of the course that the student completes a 2-3 month period gaining suitable practical experience during each Summer and submits a report on it.

At the completion of the course students who have been successful in the Final examination will be eligible for the award of the College Diploma in Engineering. They are also eligible for the award of the B.Sc. (Eng.) degree of the University of Dublin.

Recognition by Professional and Other Bodies
Students holding this Diploma meet the academic requirements for Membership of the Institution of Engineers of Ireland. It is also widely accepted by Universities in Ireland and abroad as meeting their academic requirements for entry into post-graduate courses.

Fees
Tuition fee: £53 per academic year payable on enrolment.
Examination fee: £5 payable in January.

D42S.

PROFESSIONAL COURSE IN ENGINEERING STRUCTURAL ENGINEERING
This is a four-year full-time course which prepares young people with a suitable aptitude and educational background for a career as Structural Engineers. Structural Engineering is a branch of Civil Engineering related to the design of buildings, bridges, dams and other construction projects.

Entrance Requirements
As for Course D42M.

Course of Study
First Year—Mathematics, Applied Maths, Engineering Drawing, Engineering Technology, Physics, Chemistry, and Economic and Social Studies.
Second Year—Mathematics, Physics, Fluids, Mechanics, Structural Drawing and Design, Building Technology, Surveying, Geology and Soil Mechanics, Economic and Social Studies, and Laboratory Work.
D43C. CIVIL ENGINEERING TECHNICIAN CERTIFICATE COURSE

This part-time day and evening course prepares students for a Technician Certificate/Diploma in Civil Engineering. Students are expected to be already suitably employed in a Civil Engineering or Construction firm before commencing the course. It is also possible to pursue Stage I through one year of full-time study (see course D46C) before entering employment and then pursue Stage II as a part-time student over two years as outlined below.

Requirements
- Leaving Certificate or equivalent in five subjects including Mathematics, and a Science subject (preferably Physics).

Course of Study
- Stage III—Fifth and Sixth Years—Diploma Stage. This stage specialises in Municipal Engineering. Candidates are expected to be employed and gaining suitable experience in this field and are required to have passed the Certificate Stage with Credit, or have at least one year's suitable experience together with a Pass Certificate. Subjects: Mathematics, Road Engineering, Management Studies, Planning and Building Regulations, Hydraulics and Sanitary Services, Design and a project.

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

Tuition Fee
- £16.00 per annum payable on enrolment.

Examination Fee
- £5 payable in January.

D43V. HEATING, VENTILATING + AIRCONDITIONING TECHNICIAN COURSE

This is a part-time day and evening course intended to prepare students in suitable employment for the City & Guilds of London examinations in Heating, Ventilating & Airconditioning (Technicians' Certificate Course No. 632).

Entrance Requirements
- (a) Satisfactory completion of the first year of Course D46 or Course D46M; or
- (b) Dept. of Education Intermediate Technical Certificate or
- (c) Leaving Certificate with Honours in Mathematics, Physics and Drawing or
- (d) Qualifications deemed equivalent by the College.

Course of Study

Examination and Other Requirements
- At the end of the first year students take the Part I examination (No. 632) of the City & Guilds of London Institute, and they take Part II at the end of the second year.

Fee £16.00 per annum.

D44. DIPLOMA COURSE IN MOTOR INDUSTRY MANAGEMENT

This whole-time course prepares students for entry into the many and varied responsible positions in the Motor Industry. The course prepares students for the College examinations for the award of a Transport Engineering Technician Certificate at the end of two years' study and for the award of the Diploma in Motor Industry Management at the end of a further year's study.

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

Course of Study
EXAMINATIONS

Fees

Tuition fee: €38 per academic year payable on enrolment.

Requirements

1. Progress to successive years of the course will be on the basis of the student's work during the session and success in the College sessional examinations. Only students who successfully complete the Certificate stage and who display an aptitude for management will be accepted for the Diploma stage of the course. An essential requirement of the course is that students spend 2-3 months of each Summer Vacation in suitable employment in the Motor Industry gaining appropriate experience.

2. Where students are unable to arrange Summer employment, the Graduate Society of the Institute of the Motor Industry and the College Authorities will assist in their placement for this purpose.

3. Students qualifying for the award of the Diploma are eligible for full exemptions from the examination requirements of the Institute of the Motor Industry.

4. Tuition fee: €38 per academic year payable on enrolment.

5. Examination fee: £5 payable in January.

AIRCRAFT TECHNICIANS' COURSE

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

Entrance Requirements

(a) Intermediate Certificate of the Department of Education in suitable subjects; or

(b) Day Group Certificate of the Department of Education in suitable subjects.

Course of Study

First Year

French, English, Social Science, Physics, Mechanics, Mathematics, Drawing, Chemistry, Workshop Technology, Workshop Practice, Aero-Laboratory and PT.

Second Year

As above except Heat Engines instead of Physics.

Third Year

As above together with Materials.

Examination and Other Requirements

Students are required to pass examinations as follows:

(a) At the end of the first year the Department of Education Junior Trade Group Certificates and Elementary Stage Technological Examinations in Mechanical Engineering.

(b) At the end of the second year—the Department of Education Senior Trade Group Certificate, Intermediate Stage Technological Examinations in Mechanical Engineering and City and Guilds of London Institute Examination in Aeronautical Engineering Practice Part I.

(c) At the end of the third year—the Department of Education Senior Turning and Senior Workshop Technology and the Department of Transport & Power basic L.M.E. Certificate.

Fee £38.00 per annum.

D46C.

CIVIL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA COURSE

This course prepares students for a Technician Certificate award in Civil Engineering at the end of two years and for a Technician Diploma award at the end of a further year of study. 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 Civil or Structural Engineering design offices, construction sites, etc.

Entrance Requirements

First Year—Leaving Certificate or equivalent with good passes in Mathematics, a Science subject (preferably Physics), English and two other subjects.

Third Year (Diploma Stage)—Students are expected to reach a high standard in the Certificate Examination at the end of the second year to qualify for admission to the third year of the course leading to the Diploma award. The Diploma stage is specialised and is focused on Structural Design.

Course of Study


Second Year (Certificate Stage)—Structural Design and Detailing, Mathematics, Engineering Materials and Laboratory Work, Surveying, Construction Services and Supplies, Planning and Administration and Complementary Studies.

Third Year (Diploma Stage)—Theory of Structures, Structural Design, Municipal and Road Engineering, Mathematics and Data Processing, Management Studies and a Project.
Technological and Technician Courses

Examination and Other Requirements
(a) Students take a College examination at the end of each session which is moderated by the National Council for Educational Awards.
(b) They are required to submit a report on their Summer vacation training each year and also reports on their project and laboratory work.

Recognition by Professional Bodies
Those who have successfully completed the Certificate Stage of this course meet the academic requirements for Technician status with the Institution of Engineers of Ireland, while those who have completed the Diploma Stage meet the Technician Engineer level and can qualify for the non-Corporate Associateship grade of membership after they have completed a suitable period of practical training.

Fees
Tuition fee: £38 per academic year, payable on enrolment. Examination fee: £5 payable in January.

D46H. ENVIRONMENTAL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA COURSE
This course prepares students for a Technician Certificate award in Environmental Engineering at the end of two years and for a Technician Diploma award at the end of a further year of study. 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 Heating, Ventilating and Air Conditioning design in Consulting Engineers' offices and related industry.

Entrance Requirements
First Year—Leaving Certificate or equivalent, with good passes in Mathematics, a Science subject (preferably Physics), English and two other subjects.
Third Year (Diploma Stage)—Students are expected to reach a high standard in the Certificate Examination at the end of the second year to qualify for admission to the third year of the course leading to the Diploma award.

Course of Study

Examination and Other Requirements
(a) Students take a College examination at the end of each session, which is moderated by the National Council for Educational Awards.
(b) They are required to submit a report on their Summer vacation training each year and also reports on their project and laboratory work.

Recognition by Professional Bodies
Those who have successfully completed the Certificate Stage of this course meet the academic requirements for Technician status with the Institution of Engineers of Ireland, while those who have completed the Diploma Stage are at Technician Engineer level and can qualify for the non-Corporate Associateship grade of membership after they have completed a suitable period of practical training.

Fees
Tuition fee: £38 per academic year, payable on enrolment. Examination fee: £5 payable in January.

D46M. MECHANICAL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA COURSE
This course prepares students for a Technician Certificate award in Mechanical Engineering at the end of two years and for a Technician Diploma award at the end of a further year. The students attend the College for eight months each year commencing in September, and they spend the Summer period getting practical experience in industry, design offices, etc.

Entrance Requirements
First Year—Leaving Certificate or equivalent with good passes in Mathematics, a Science subject (preferably Physics), English and two other subjects.
Third Year (Diploma Stage)—Students are expected to reach a high standard in the Certificate Examination at the end of the second year to qualify for admission to the third year of the course leading to the Diploma award. The Diploma stage is specialised. At present two options are offered—Process Plant or Manufacturing Technology.

Course of Study
Second Year—Mathematics, Mechanics, Energy Utilisation, Production Technology, Drawing and Design, Instrumentation and Controls, Engineering Laboratory and Complementary Studies.
Third Year—Common core subjects: Mathematics, Power and Instrumentation Systems, Complementary Studies, and Mechanics; with Manufacturing Technology, Manufacturing Management and Manufacturing Design (Manufacturing Option) and—Process Plant Technology I and II, Process Plant Design (Process Option). Each student is also required to complete a Project.
Technological and Technician Courses

Examination and Other Requirements
(a) Students take a College examination at the end of each session, which is moderated by the National Council for Educational Awards.
(b) They are required to submit a report on their industrial training each year and also reports on their Project and laboratory work.

Recognition by Professional Bodies
Those who have successfully completed the Certificate Stage of this course meet the academic requirements for Technician status with the Institution of Engineers of Ireland, while those who have completed the Diploma Stage are at Technician Engineer level and can qualify for the non-Corporate Associateship grade of membership after they have completed a suitable period of practical training.

Fees
Tuition fee: £38 per academic year, payable on enrolment. Examination fee: £5 payable in January.

D47. MECHANICAL ENGINEERING TECHNICIAN COURSE

This part-time day course is intended to prepare suitable students for the City & Guilds of London examinations for Mechanical Engineering Technicians (255). The course is for technicians and draughtsmen engaged in the following types of employment:

Entrance Requirements
Elementary Stage Technological Certificate of the Department of Education examinations in Mechanical Engineering, Leaving Certificate or full endorsement in Final Craft Certificate with suitable craft background.

Course of Study
First Year

Second and Third Years
Science and Mathematics, Drawing and Materials, Production Technology and General Studies.

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

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

Fees £16.00 per annum.

Technological and Technician Courses

SHORT COURSE PROGRAMME

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

(a) Low Cost Automation;
(b) Fluid Power;
(c) Maintenance Management Techniques;
(d) Modern Production Methods;
(e) New Developments in Welding Technology.
(f) Fuel Technology.
(g) Fire Safety.
(h) CP110 and Structural Design.
(j) New Materials.
### TRADE COURSES

The 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.

The 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.

#### AUTOMOBILE ENGINEERING

The Department of Education Trade Certificates.

**Duration of Course**
- Block Release Course of 11 weeks of 35 hours each week.
- 2 years of 38 weeks each year.

**Subjects**

**Entrance Qualifications**
- Day Vocational Group Certificate or Intermediate Certificate.

#### AUTOMOBILE ENGINEERING—PART-TIME


**Duration of Course**
- 2 years of 38 weeks each year.

**Subjects**
- A more advanced treatment of the subjects included in the Part I (380) course (D127).

**Entrance Qualifications**
- (380) Part I C & G Certificate or Department of Education Junior Trade Certificate.

#### MOTOR VEHICLE TECHNICIANS—PART-TIME

This course prepares students who successfully complete Course D127 and pass the Elementary Technological Certificate examination of the Department of Education.

**Objective of Course**
- Department of Education Intermediate and Advanced Technological Certificates (Motor Car Engineering) and City and Guilds of London Motor Vehicle Technicians Certificate (390), Parts I and II. Students of the course will also take the Department of Education Senior Trade Certificate.

**Duration of Course**
- 38 weeks each year for 2 years.

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

**Subjects**

**Entrance Requirements**

#### MOTOR VEHICLE PARTSMEN

The City and Guilds of London Institute Motor Vehicle Parts Certificate (381) Part II.

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

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

**Entrance Qualifications**
- (380) Part I of the Certificate.
Trade Courses

D131. MOTOR VEHICLE ELECTRICIANS
The City and Guilds of London Institute Motor Vehicle Electricians' Certificate (381) Part II.

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: (380) Part I of the Certificate.

D134. AUTO-ENGINEERING TECHNICIANS
Department of Education Advanced Motor Car Engineering Technological Certificate and the 390 Part III City & Guilds of London Institute Motor Vehicle Technicians' Full Technological Certificate.

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


Entrance Qualifications: Department of Education Intermediate Motor Car Engineering Technological Certificate (3 subjects) or the 390 City & Guilds of London Institute Parts I and II Certificate.

Fee: £16.00 per annum.

D136. AUTOMOBILE ENGINEERING
Refresher courses, Short courses of 3 days' duration on modern developments and techniques in the industry for qualified motor mechanics.

D140. FITTING AND TURNING
Objective: Department of Education Trade Certificate (Senior Stage only).
Duration of Course: Two years of day release (1 day each week).
Subjects: Workshop Practice and Workshop Technology.
Entrance Qualifications: Department of Education Junior Trade Certificate or equivalent.

D141. FITTING AND TURNING
Objective: Department of Education Junior and Senior Trade Certificates with endorsements.
Duration of Course: Four years of block release (11 weeks each year).
Entrance Qualifications: Day Vocational Group Certificate or Intermediate Certificate or equivalent.

D142. MECHANICAL ENGINEERING MAINTENANCE OR MACHINING
Objective: Mechanical Engineering Machining and Mechanical Engineering Maintenance Craft Studies Course No. 205 Part III of the City and Guilds of London Institute.
Duration of Course: One year of day release (1 day each week).
Subjects: Workshop Laboratory and Workshop Technology.
Entrance Qualifications: Department of Education Senior Trade Certificate with Mathematics or Engineering Science endorsement or City and Guilds Mechanical Engineering Craft Studies Course No. 205 Part II or equivalent.

D154. AERONAUTICAL ENGINEERING CRAFT STUDIES
This is a one-year course requiring attendance of one day and two evenings (13 hours) weekly per session. This course is designed to prepare students for the Part I of the City and Guilds examinations in Aeronautical Engineering Craft Studies.
Entrance Requirements: Day Vocational Group Certificate, Intermediate Certificate or equivalent and be employed in the Aeronautical Engineering Industry.
Fee: £16 per annum.
Trade Courses

D154A. AERONAUTICAL ENGINEERING CRAFT STUDIES (Mechanical)

D154B. AERONAUTICAL ENGINEERING CRAFT STUDIES (Avionics)

The above courses are designed to prepare students for Part II of the City and Guilds Examinations in Aeronautical Engineering Craft Studies (Course No. 208). Students may specialise in Mechanical Engineering or Avionics. Classes are held on one day and two evenings per week.

Entrance Requirements

Part 1 City and Guilds Aero Engineering Craft Studies.

Fee

£16 per annum.

School of Printing + Book Production

The School provides courses at technological, technician and apprentice level in the following disciplines:

COMPOSING

The Composing Department covers the requirements of the Department of Education Syllabus up to Senior level and of the City and Guilds Advanced Certificate Syllabus. The curriculum includes instruction in Theory, Practice, Typographic Design, Mechanical Composition, Photo-composition including filmsetting and make-up, Applied Science, Liberal Studies and Irish.

PHOTOTYPGRAPHY

Courses in this section are for re-training compositors in the latest composing techniques in Film Assembly and Photo Headliner display setting. There are also keyboard conversion courses on the IBM Composition System, combined with Photo Headliner display setting and paper make-up techniques.

LETTERPRESS MACHINE PRINTING

The Letterpress Department covers the requirements of the Department of Education Syllabus up to Senior level and of the City and Guilds Advanced Certificate Syllabus. The equipment includes a wide variety of handfed and automatic platens, automatic cylinder presses and a two-colour sheet-fed-rotary. Various types of anti set off spray are in use and a wide variety of ancillary aids and measuring instruments are provided, including pre-make ready equipment, mechanical overlays; a precision proofing press and a duplex register table. The curriculum includes instruction in Theory, Practice, Applied Science, Liberal Studies and Irish.

LITHOGRAPHY AND PHOTO LITHOGRAPHY

The Lithographic Department covers the requirements of the Department of Education Syllabus up to Senior level and of the City and Guilds Guilds Advanced Certificate Syllabus. The course provides a sound training in Photolithographic platemaking, step and repeat work and offset printing. It includes instruction in the Theory and Practice of Platemaking and Press operation, Applied Science and Liberal Studies.

BOOKBINDING AND PRINT FINISHING

The Bookbinding Department covers the requirements of the Department of Education Syllabus up to Senior level and of the City and Guilds Advanced Certificate Syllabus. The course provides experience in hand and mechanised bookbinding, finishing and print finishing processes and includes instruction in technical Theory and Practice, Applied Printing, Applied Science, Design and Liberal Studies.
**TECHNICIAN COURSES**

**D82. TRAINING FOR ADMINISTRATIVE STAFF**

This course is intended for those engaged in the administrative side of printing with a view to preparing them for higher administrative posts in the industry.

The age group for trainees is between 18 and 24 years, and the minimum educational qualification required is the Department of Education Leaving Certificate.

The course occupies three years and attendance for one day and two evenings each week is required.

Year One
- Principles of Accounts, Structure of Commerce, Office Practice, Practical appreciation of the techniques of the work of hand and mechanical composing; Bookbinding and Print Finishing; Graphic Reproduction; General Technical Knowledge.

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

Year Three

Fee £16.00 per annum.

**D87. BUSINESS STUDIES IN PRINTING FOUNDATION COURSE**

This course is designed to provide instruction for persons taking up employment in an administrative capacity in the printing industry. The syllabus will cover the practice and technique of composition printing, print finishing, estimating and costing procedures.

The course will commence on 10th January and terminate on 26th March, 1977. It will involve attendance at the College for thirty-five hours per week.

Fee £38 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.

**D183. LETTERPRESS MACHINE PRINTING**

(Block-release course)

Consecutive courses of 12-13 weeks duration for apprentices. During each course the apprentices attending complete a stage of the Department of Education’s syllabus 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.

**D190. COMPOSING**

(Block-release Course)

Consecutive courses of 12-13 weeks’ duration for apprentices. During each course the apprentices attending complete a stage of the Department of Education’s syllabus for the Junior, Intermediate and Senior Trade Certificate Examinations in Composing. An examination in each stage is set by the Department of Education at the conclusion of each course.

**D191. BOOKBINDING**

(Block-release Course)

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

**D192. LITHOGRAPHY AND PHOTO-LITHOGRAPHY**

(Block-release Course)

Consecutive courses of 12-13 weeks’ duration for apprentices. During each course the apprentices attending complete a stage of the Department of Education’s syllabus for the Junior, Intermediate and Senior Trade Certificates Examination in Lithography and Photo-Lithography Work. An examination in each stage is set by the Department of Education at the conclusion of each course.
Trade Courses

D193. ARCHIEVAL STUDIES
A one-year course designed to cover aspects of book production and printing for students of the Diploma in Archival Studies Course in U.C.D. Students attend on two mornings per week.
Fee £16 per annum.

D195. FILM ASSEMBLY AND PHOTOCOMPOSING
This is a full-time course of 7 weeks duration for trainees from industry, at the end of which a certificate examination is taken. The course covers all aspects of Film Assembly both practical and theoretical.
Fee £38.00 per annum.

D195A. PAPER PASTE-UP AND PHOTO HEADLINER DISPLAY TECHNIQUES
Course for nightworkers (compositors and senior apprentices).
Duration of course is 13 weeks with attendance for 3 hours on one afternoon per week. Course content is the same as E195.
Fee £6.00 per annum.

D196. ADVANCED LINOTYPE, INTERTYPE AND TELETYPOSETTING
An intensive post-apprenticeship course in practical training for craftsmen. Held on Monday, Tuesday, Wednesday and Thursday from 3.30 to 7.30 p.m.
Course commences on 17th January and terminates on 25th March, 1977.
Fee £16.00

School of Trades

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

DAY CLASSES
Courses (D101-D153) are organised for apprentices in the industries referred to above mainly on a day release basis. The students are released from work, by their respective employers, to attend classes on one full day weekly. The various courses lead, over a period of from one to four years, to the Senior Trade Tests (Theory & Practice) of the Department of Education and the relevant examinations of the City and Guilds of London Institute. Opportunities are available for students to proceed to further courses on completion of their apprenticeship.

Technician courses, involving attendance on one full day and two evenings weekly, are offered to suitably qualified persons engaged in the Construction Industry. Course D153A prepares students for the Plumbing Technicians' Certificate (Parts I & II) No. 631 of the City and Guilds of London.

EVENING COURSES
Evening Trade Courses, mainly at the more advanced levels, are organised on the basis of attendance of two evenings weekly. Provision is made for students to take the relevant trade tests. The School also provides a comprehensive course in Building Construction and associated subjects for those engaged in the Construction Industry. The course content is based on the syllabus of the Department of Education Technological Examinations in Building at Elementary, Intermediate and Advanced levels.
DAY COURSES

PART-TIME DAY RELEASE CLASSES FOR APPRENTICES

D102. Plastering.
D105. Painting and Decorating.
D111. Cabinetmaking.
D111A. Furniture Making.
D112. Upholstery.
D113. Woodfinishing.
D121. Carpentry and Joinery.
D122. Woodcutting Machinists' Work.
D143. Welding.
D149. Sheetmetal Work.
D150. Metal Fabrication.

BLOCK RELEASE CLASSES FOR APPRENTICES

D145. Foundry Work.
D151. Plumbing/Heating Fitting.

D153A. PLUMBING TECHNICIANS

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

Entry Qualifications

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

Tuition Fee £16.00 per annum.
## E4. PROFESSIONAL COURSE IN SURVEYING AND CONSTRUCTION STUDIES

This is a three-year, two-stage evening link course to enable students who hold Intermediate Level qualifications in the construction and surveying fields to progress to full professional qualifications of the appropriate institution.

Students may attend classes up to five evenings per week depending on their selection of subjects.

**Entry Requirements**
- N.C.E.A. Diploma in Construction Studies, H.B.T.C., L.I.O.B.,
- Part 1 R.I.C.S., Part 1 I.Q.S.

**Fee**
- £11 per annum.

## E9A. PHOTOGRAMMETRY AND CARTOGRAPHY

This is a one-year evening course involving attendance for nine hours per week for twenty-two weeks. The course is open to people employed in Cartography and will cover modern methods of Surveying and Map Production.

**Fee**
- £11 per annum.

## E9B. MINE SURVEYING

This is a one-year evening course involving attendance for nine hours per week for twenty-two weeks. The course is open to people employed in Mining and will cover modern methods of surveying related to Mining.

**Fee**
- £11 per annum.

## E9C. BUILDING MANAGEMENT

This is a one-year course involving attendance for nine hours per week for twenty-two weeks. The course is confined to persons who have held positions of responsibility in the building field for at least two years.

**Fee**
- £11 per annum.
School of Engineering

TECHNOLOGICAL AND TECHNICIAN COURSES

E41. GRADUATE COURSES IN ENGINEERING
A 4-year course to prepare students for the examinations of Professional Engineering bodies including:
(1) Institution of Engineers of Ireland,
(2) Council of Engineering Institutions (CEI) and its constituent bodies including:
(a) The Institute of Mechanical Engineers;
(b) The Institute of Production Engineers;
(c) The Institute of Fuel;
(d) The Institute of Structural Engineers;
(e) The Institute of Municipal Engineers.
Courses are offered for both Part I and Part II stages provided there are sufficient applicants of a suitable educational standard.
Part I. Some or all of the following subjects may be offered:
Part II. Depending on demand the following subjects may be offered: The Engineer in Society; Mechanics and Properties of Materials, Fluid Mechanics, Structural Analysis, Structural Design, Thermodynamics, Operations Research and possibly other subjects. Students are required to complete a laboratory programme as part of this stage.
Full details of the syllabus and examination regulations are contained in CEI Statement No. 10 available from the Council of Engineering Institutions, 2 Little Smith Street, London SW1. Price 50p.
Before entry applicants must meet the requirements of the appropriate Institution for Student Membership. They are urged to make early application to the Institution because it may take several months to process and it is not possible to sit the examination until this has been completed. 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 requirement for student membership of the Institution of Engineers of Ireland is Leaving Certificate with Honours or GCE Advanced Level in Mathematics and a suitable Science subject together with four Ordinary Level subjects including English. Certain Technician qualifications also meet the educational requirements for student membership and may give exemption from all or some subjects in Part I. Details are available from the appropriate Institution.
Fee £11.00 per annum.

E54. STRUCTURAL DESIGN
This is a one-year advanced course intended for those who wish to prepare for the Part III Design examination of the Institution of Structural Engineers. Depending on demand there may be options in Steel or Concrete Design.
Fee £11.00 per annum.

E40. GENERAL CERTIFICATE OF EDUCATION (GCE) COURSE
These are intended for students who have not reached the required standard of entry into Professional and Higher Level Technician Courses.

Ordinary Level
The following subjects may be offered:
English, Additional Pure Mathematics, Physics and Chemistry. The entrance standard is Leaving Certificate or Department of Education Elementary Technical Certificate in Mechanical Engineering including Mathematics or equivalent.

Fee per annum:
£6 for one subject.
£11 for two or more subjects.

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

Fee per annum:
£6 for one subject.
£11 for two or more subjects.
E42.

TECHNOLOGICAL CERTIFICATE COURSE IN MECHANICAL ENGINEERING

This course is intended to prepare students for the Certificate examinations of the Department of Education in Mechanical Engineering as follows:

At the end of the Second year—Elementary Stage. Subjects: Maths, Mechanics, Heat, Drawing.

At the end of the Third year—Intermediate Stage. Subjects: Maths, Mechanics, Heat Engines, Drawing.

At the end of the Fourth year—Advanced Stage. Subjects: Maths, Mechanics, Heat Engines, Drawing.

The entrance requirements are Department of Education Intermediate Certificate or Day Group Certificate with passes in Mathematics, English and a Science subject. Students with Leaving Certificate which includes a pass in Mathematics and a Science subject may enter the course at the third year stage.

Fee £11.00 per annum.

E43C.

CIVIL ENGINEERING TECHNICIANS' CERTIFICATE COURSE

This is a four-year evening course to prepare students in suitable employment for a Civil Engineering Technicians' Certificate. It parallels Course D43C and Course D46C and follows a similar syllabus. The entrance requirement is Leaving Certificate or G.C.E. in five subjects, or the Senior Trade Certificate with endorsements, or equivalent qualifications.

Subjects

First & Second Years

Third & Fourth Years

Fees
Tuition Fee £11 per annum payable on enrolment.
Examination Fee £5 payable in January.

E43M.

MECHANICAL ENGINEERING TECHNICIANS' COURSE

This is a four-year evening course to prepare students in suitable employment for a Mechanical Engineering Certificate. It parallels Course D46M and follows a similar syllabus. The entrance requirement is Leaving Certificate or G.C.E. in five subjects, or the Senior Trade Certificate with endorsements, or equivalent qualifications.

Subjects

First & Second Years

Third & Fourth Years
Mathematics, Mechanics, Energy Utilisation, Production Technology, Drawing and Design, Instrumentation and Controls, Engineering Laboratory and Complementary Studies.

Fees
Tuition Fee £11 per annum payable on enrolment.
Examination Fee £5 payable in January.

E43S.

STRUCTURAL ENGINEERING DESIGN/DETAILING

This is a three-year course intended for those who are employed in structural drawing offices and wish to prepare for Parts I, II and III of the City & Guilds Structural Engineering Course No. 630. The entrance requirement is Leaving Certificate or equivalent.

Subjects

First Year

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

Fee £11.00 per annum.
Technological and Technician Courses

E43V. HEATING AND VENTILATING TECHNICIAN
CERTIFICATE

This is a four-year evening course to prepare students in suitable employment for a Heating and Ventilating Technician Certificate. It parallels Course D46H and follows a similar syllabus. The entrance standard is Leaving Certificate in five subjects including Mathematics or Senior Trade Certificate with endorsements or equivalent qualifications.

Subjects
First & Second Years

Third & Fourth Years

Fees
Tuition Fee £11 per annum payable on enrolment.
Examination Fee £5 payable in January.

E44. MOTOR INDUSTRY MANAGEMENT COURSE

This is a two-year evening course to prepare students for the Final Associate Membership Examinations (External) of the Institute of the Motor Industry. Classes are held on two evenings per week for 30 weeks each year.

Subjects
Motor Industry Law.
Motor Industry Management.
Motor Industry Accountancy.
Motor Industry Administration and Organisation (Service 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 (390).

Fee £11.00 per annum.

E47. MECHANICAL ENGINEERING TECHNICIAN COURSE

This is a four-year evening course to prepare students for the Part I and Part II examinations of the City & Guilds Institute for Mechanical Engineering Technicians Course (255). Students should have a suitable craft background and hold the Elementary Technological Certificate in Mechanical Engineering, GCE, Leaving Certificate or equivalent.

The course of study is as set out for Course D47 which is the parallel course operating by day.

Fee £11.80 per annum.

E57. ENGINEERING WORKS MANAGERS' COURSE

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

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

Course of Study
First Year
Production Analysis I, Economic Analysis, Organisation Analysis, Statistics.

Second Year
Production Analysis II, Industrial Finance and Accounting, Psychology and Sociology, Industrial Relations.

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

Fee £11.00 per annum plus an examination fee of approximately £20.00 payable to the I.W.M.
E49. AUTOMOBILE ENGINEERING COURSE

Department of Education Technological Certificate (Motor Car Engineering).

Duration of Course 5 years evening (9 hours per week).

Subjects Motor Car Engineering, Engineering Science and Mathematics, Automobile Electricity, Engineering Laboratory, General Studies including English, Drawing and Sketching.

Entrance Qualifications Day Vocational Group Certificate or Intermediate Certificate with Honours in certain specified subjects.

Fee £11.00 per annum.

E50. COMPUTER PROGRAMMING

This is a two-year course in which students are prepared for the City & Guilds Examination No. 746, (Basic Certificate Computer Programming.)

Entrance Qualifications Leaving Certificate with Commercial or Industrial experience.

Fee £11.00 per annum.

E58. REFRIGERATION ENGINEERING TECHNICIANS

This is a two-year course for Technicians employed in the refrigeration engineering industry. Suitable students are prepared for the 257 City & Guilds of London Institute examinations in Science and Technology of Refrigeration. The subjects of instruction are: Science, Refrigeration Processes and Machinery, and Drawing.

Fee £11.00 per annum.

E60. DOMESTIC HEATING ENGINEERS' COURSE

This two-year evening course prepares students for the examination of the Institute of Domestic Heating Engineers. Successful candidates will be eligible for entry to the Institute as Associate Members. The course is available only to those who are employed at a suitable level in the heating industry.

Duration of Course Two evenings per week over two years.

Entrance Requirements (a) Leaving Certificate or equivalent including Mathematics and Physics; or
(b) Senior Trade Certificate in Plumbing; or
(c) Heating and Ventilating Craft Certificate

In appropriate cases applicants with approved practical experience may enrol at the discretion of the College.

Those who fail to satisfy the above requirement may be admitted to a Preliminary Course of one year's duration.

Subjects Heat Transfer; Combustion and Controls; Heating Systems and Equipment.

Fee £11.00 per annum.

E63. FIRE ENGINEERING COURSE

This is a two-year course which prepares students for the Graduateship examinations of the Institution of Fire Engineers.

Entrance Requirements Leaving Certificate or equivalent standard and employment as a Fire Officer.


Fee £11.00 per annum.
Technological and Technician Courses

E64. PROCESS PLANT DESIGN
This is a one-year course for process plant design and piping draughtsmen who have already successfully completed an appropriate technician course. The course will involve attendance on two evenings per week for the session.

Entrance Qualifications Suitable engineering technician qualification or equivalent.
Fee £11 per annum.

E66. QUALITY CONTROL TECHNICIANS CERTIFICATE
This is a one-year course for those who already possess an engineering technician or related qualification and wish to acquire greater expertise in quality control. The course will be geared towards the City and Guilds Certificate No. 743 in Quality Control.

Entrance Qualifications Suitable engineering technician qualification or equivalent.
Fee £11 per annum.

E67. WELDING TECHNICIANS CERTIFICATE
This is a four-year evening course to prepare students in suitable employment for a Welding Technicians' Certificate. The entrance standard is Leaving Certificate in five subjects including Mathematics, or Senior Trade Certificate with endorsements or equivalent qualifications.

Course of Study The first two years are common with course E43M.

E46. FLIGHT DISPATCHER. (Flight Operations Officer)

Duration One year, two evenings per week.
Entrance Requirements Employed in Air Traffic Control operations.
Fee £11 per annum.

E48. AIRCRAFT TECHNICAL SUPPORT
This course provides instruction for personnel employed in the aircraft back-up facility areas, e.g. Stores, Purchasing Supplies, Progress Chasing, Method Study and Work Study.

Duration It is a one-year course requiring attendance on two evenings per week.
Entrance Requirements Employment in the Aviation Industry.
Fee £11 per annum.

E51. PRODUCTION PLANNING COURSE (I.A.T.A.)
This course provides instruction for personnel employed in the Planning Department of the Aeronautical Industry. The course covers Aircraft Organisation and Practice, Aircraft Operational and Production Technology.

Entry Personnel employed in Planning Departments in the Industry, or holders of the City and Guilds Course 258, Part II.
Requirements Duration of Course 3 evenings per week (290 hours plus 70 hours Aeronautical Projects).
Fee £11 per annum.

MAINTENANCE ENGINEERS LICENCES OF THE DEPARTMENT OF TRANSPORT AND POWER

E52A. 'A' LICENCE—B.A.C. 1-11
E52B. 'A' LICENCE—B.707 B.720
E52C. 'A' LICENCE—B.737
E52D. 'A' LICENCE—B.747
E52E. 'A' LICENCE—CESSNA 172
E52F. 'C' LICENCE—P & W JT3 SERIES
E52G. 'C' LICENCE—P & W JT8D
E52H. 'C' LICENCE—P & W JT9D
E52J. 'C' LICENCE—ROLLS ROYCE SPEY
E52K. 'C' LICENCE—ROLLS ROYCE CONTINENTAL 150
E52L. 'C' LICENCE—D/H. GIPSY MAJOR
E52M. 'X' LICENCE—INSTRUMENTS
E52N. 'X' LICENCE—ELECTRICAL
E52P. 'X' LICENCE—RADAR
E52Q. 'X' LICENCE—RADAR (RADAR ENDORSEMENT)
Technological and Technician Courses

The above courses provide instruction for Aircraft Maintenance Engineers, wishing to take the appropriate licence examinations of the Department of Transport and Power. The courses are of one year's duration requiring attendance on two evenings per week.

**Entrance Requirements**
Basic Aeronautical Engineering Certificate in appropriate category.

**Fee**
£11 per annum.

**E53. AVIONIC DIGITAL TECHNIQUES**
This is a four-year evening course for personnel employed in the Aircraft Industry in Electrical, Instrument and Radio Environments.

**Entry Requirements**
Aeronautical Engineering Certificate in the appropriate category or equivalent.

**Fee**
£11 per annum.

**BASIC AERONAUTICAL ENGINEERING CERTIFICATES OF THE DEPARTMENT OF TRANSPORT AND POWER**

- **E55A. AIRFRAMES UNPRESSURISED (B.A.E.C. 1)**
- **E55B. AIRFRAMES PRESSURISED (B.A.E.C. 2)**
- **E55C. PISTON ENGINES (B.A.E.C. 3)**
- **E55D. TURBO-PROP & TURBO-JET ENGINES (B.A.E.C. 4)**
- **E55E. HELICOPTERS (LESS ENGINES) (B.A.E.C. 5)**
- **E55F. ELECTRICAL (B.A.E.C. 6)**
- **E55G. RADIO (B.A.E.C. 7)**
- **E55H. INSTRUMENTS (B.A.E.C. 8)**

The above courses are of one year's duration requiring attendance for two evenings (6 hours) weekly per session. The courses are designed to prepare students for the Basic Aeronautical Engineering Certificate examinations of the Department of Transport and Power. Employment in the Aeronautical Engineering Industry.

**Entrance Requirements**
£11 per annum.

**Fee**
£11 per annum.

**E56A. PRIVATE AIRCRAFT PILOTS LICENCE**
**E56B. PRIVATE PILOTS LICENCE INSTRUMENT RATING**
These courses provide instruction in Meterology, Navigation, Air Legislation and Aero Laboratory (Technical) for personnel wishing to take the Department of Transport and Power Private Pilots Licence and the Private Pilots Licence Instrument Rating.

**Fee**
£11 per annum.

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School of Engineering

**TRADE COURSES—EVENING**

**E133. COMPRESSION IGNITION COURSE**
379 City & Guilds of London Institute Compression Ignition Engines Mechanics Certificate.

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

**Subjects**
- Compression Ignition Engine Technology.
- Compression Ignition Engine Maintenance.
- Fuel Injection System Maintenance.

**Entrance Qualifications**
Department of Education Senior Trade Certificate or equivalent.

**Fee**
£11-00 per annum.

**E134. 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.

**Fee**
£11-00 per annum.

**E136. 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 Trade Certificate of the Department of Education.

**Fee**
£11-00 per annum.
E142. **MECHANICAL ENGINEERING MAINTENANCE OR MACHINING**

**Objective**
The City and Guilds of London Institute Mechanical Engineering Craft studies Course No. 205, Part II and Part III. Students take Part II of the examination at the end of the second year of the Course and Part III at the end of the third year.

**Duration of Course**
Three years (2 evenings each week).

**Subjects**
Workshop Laboratory, Workshop Technology and Project Work.

**Entrance Qualifications**
Department of Education Junior Trade Certificate or equivalent.

**Fee**
£11 per annum.

E154. **AERONAUTICAL ENGINEERING CRAFT STUDIES**

This is a one-year evening course requiring attendance for two evenings (6 hours) weekly per session. The course is designed to prepare students for Part I of the City and Guilds Examinations in Aeronautical Engineering Craft Studies (Course 208).

**Entrance Requirements**
Day Vocational Group Certificate or Intermediate Certificate and be employed in the Aeronautical Engineering Industry.

**Fee**
£11 per annum.

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School of Printing + Book Production

**TECHNICIAN COURSES**

E81. **HIGHER PRINTING EDUCATION**

This is a two-year course to prepare students for the Department of Education Technological Certificate in Printing. The Course requires attendance at the College for three evenings (9 hours) per week during the academic year.

**Entrance Requirements**
The City & Guilds of London Institute Advanced Certificates in Composing; Letterpress Machine Printing; Lithography and Photo-Lithography; Bookbinding and Print Finishing.

**Fee** £11:00 per annum.

E83. **APPLIED PRINTING**

A course requiring attendance for 2 evenings each week designed to provide those engaged in the Clerical and Administrative side of Printing with a general knowledge of the crafts involved in modern printing and of the materials and appliances used. Students who complete the course may enter the General Technical Knowledge examination of the British Printing Industries Federation. It is necessary to have passed the General Technical Knowledge examination to be accepted as a candidate for the following:

(a) Estimating examination of the British Printing Industries Federation.
(b) Printing Office Procedure examination of the British Printing Industries Federation.

**Fee** £11:00 per annum.

E83A. **PRINTING OFFICE PROCEDURE**

**Objective**
This course, requiring attendance for two evenings each week, is aimed at preparing printing administrative personnel for the Printing Office Procedure Examination of the British Printing Industries Federation.

**Entrance Qualifications**
It is recommended that those entering the course should possess the General Technical Knowledge Certificate of the British Printing Industries Federation or equivalent qualification.

**Fee** £11:00 per annum.
E84A. COST ACCOUNTANCY FOR PRINTERS
A course requiring attendance for two evenings each week designed to prepare students for the examination of the British Printing Industries Federation.

Entrance Qualifications
Royal Society of Arts Certificate in Accounting and Office Procedure, or equivalent.

Fee £11.00 per annum.

E84B. COST ESTIMATING FOR PRINTERS
A course requiring attendance for two evenings each week designed to prepare students for the examination of the British Printing Industries Federation.

Entrance Qualifications

Fee £11.00 per annum.

E84C. ADVANCED LETTERPRESS OFFSET AND LITHOGRAPHY COST ESTIMATING FOR PRINTERS
A one-year course requiring attendance for two evenings each week. Students are prepared for the British Printing Industries Federation examinations in Advanced Letterpress Estimating and Advanced Offset Lithography Estimating examinations.

Entrance Requirements
Only students who have successfully completed course E84A will be eligible for this course.

Fee £11.00 per annum.

E85. 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 examination of the National Association of Paper Merchants.

Entrance Qualifications
Leaving Certificate.

Fee £11.00 per annum.

E86. DESIGN FOR PRINTING
This is a two-year course to prepare students for the City & Guilds of London Institute examinations in Design for Printing. Classes are held on two evenings per week.

Entrance Requirements
Department of Education Leaving Certificate or Department of Education Senior Certificate in a graphic arts subject or other equivalent qualifications.

Fee £11.00 per annum.

E88A. COMPOSING
E88B. LETTERPRESS MACHINE PRINTING
E88C. LITHOGRAPHY AND PHOTO-LITHOGRAPHY
E88D. BOOKBINDING AND PRINT FINISHING
These are courses of one year's duration requiring attendance at the College for three evenings (7 hours) weekly per session. The courses are aimed at preparing students for the Advanced Examination of the City & Guilds of London Institute.

Entrance Requirements
Department of Education Senior Trade Certificate in appropriate trade.

Fee £11.00 per annum.

E89A. PRINTING PRODUCTION MANAGEMENT (DEPARTMENTAL)
A one-year course requiring attendance at the College for three evenings per week (6 hours).

Entrance Requirements
City & Guilds of London Institute Advanced Certificate in one of the following: Composing; Letterpress Machine Printing; Lithography and Photo Lithography; Bookbinding and Print Finishing. Mature students with experience in the industry but who do not possess any of the foregoing qualifications may, in exceptional cases, be admitted to the course.

Subjects
Aspects of departmental management; human relations and communications in industry; production organisation; production processes.

Objectives of Course
City & Guilds of London Institute Certificate in Printing Production Management (Departmental).

Fee £11.00 per annum.
**Technician Courses**

**E89B. PRINTING PRODUCTION MANAGEMENT (WORKS)**

**Duration of Course**
A two-year course requiring attendance at the College for two evenings (4 hours) weekly.

**Entrance Requirements**
City & Guilds of London Institute Certificate in Printing Production Management (Departmental), or Full Technological Certificate in Printing, or Certificate in Supervisory Studies.

**Subjects**
Financial Aspects of Management; personnel management; production management.

**Objectives of Course**
City & Guilds of London Institute Certificate in Printing Production Management (Works).

Fee £11.00 per annum.

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**E182. PRINT FINISHING**

This course covers techniques and materials used in the production of books, magazines and the wide range of miscellaneous work handled in the print finishing department. Lectures on the economies of efficient production, welfare, safety, hand and machine operations will be given. Stress will be laid on hand and machine operations, e.g., wire stitching, sewing and folding, machine and hand feeding, gathering, folding, gluing, mounting, etc. Duration of course, 12 weeks, one evening per week.

Fee £6.00 per annum.

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**E183. LETTERPRESS MACHINE PRINTING, RETRAINING**

This is an evening course for post apprenticeship students with instruction in the latest letterpress techniques. The curriculum includes practical work on vertical presses, stop-cylinders, two revolution presses and sheet fed wrapround rotary printing, also the use of modern lining up, plate mounting and registering equipment.

Fee £6.00 per annum.

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**E184. GRAPHIC REPRODUCTION**

This is a one-year evening course for apprentices and journeymen employed in Graphic Arts. Classes will be held on one evening per week.

Fee £6.00 per annum.

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**E185. LINOTYPE, INTERTYPE, AND TELETYPESETTING**

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

Fee £11.00 per annum.

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**E186. MONOTYPE CASTER OPERATION**

A course for Monotype Caster Operators who are already employed as such in the printing industry. It covers all aspects of Monotype Casing including adjustments, alignment, etc.

Fee £11.00 per annum.
MONOTYPE KEYBOARD OPERATING
A course for composing apprentices (fourth and fifth year) and young journeymen who wish to become efficient operators. The course covers table, tabular and bookwork setting and includes machine adjustments. It can be of one or two years' duration.
Fee £11.00 per annum.

APPRECIATION OF PUBLISHING
This is a one-year evening course for those involved in the publishing of books. It will cover mechanised book production, hand bookbinding and book repair. Particular emphasis will be laid on the advantages and/or disadvantages of the various materials and binding styles used and their alternatives which may be used in the interest of economy. The techniques and terminology of forwarding, finishing and decoration will be dealt with.
Fee £6.00 per annum.

COMPOSING RETRAINING
This is an evening course for post-apprenticeship students with specialist instruction in bookwork and advanced display, composing techniques, using modern make-up and registration equipment.
Fee £6.00 per annum.

BOOKBINDING AND PRINT FINISHING, RETRAINING
This is an evening course for post-apprenticeship students with instruction in the latest techniques, and covers the whole range of materials and technology used in print finishing processes.
Fee £6.00 per annum.

LITHOGRAPHY AND PHOTO LITHOGRAPHY, RETRAINING
This is an evening course for post-apprenticeship students with instruction in the latest techniques of lithographic plate making and press operation. Craftsmen having completed apprenticeship to other printing processes, undergo retraining in lithographic printing.
Fee £6.00 per annum.

FILM ASSEMBLY AND PHOTOCOMPOSING
This course is of 26 weeks duration with attendance of 3 hours on one night per week. It is open to compositors and senior composing apprentices.
The course gives both practical and theoretical coverage of all aspects of Film Assembly including correcting, proofing, display and bookwork make-up, colour separation and finalisation.
Fee £6.00 per annum.

IBM COMPOSER LINOCOMP AND PAPER PASTE-UP
Entrance Qualifications
At present this course is only open to compositors and senior apprentices who have completed a 'Sight and Sound' touch typing course.
Object
The course enables operators to convert to the IBM 'Golfball' System and covers all aspects of IBM Composer usage, with reference to both justified and unjustified setting. Training is also provided in Paper make-up methods and materials along with Photo Headliner setting. Duration is 13 weeks with attendance for 3 hours on one night per week.
Fee £6.00 per annum.

PLANNING FOR PLATEMAKING
This course covers the practical and theoretical aspects of planning for Nylorist and Offset Lithographic platemaking. Classes will be held on one evening per week. The course is provided for apprentices and journeymen engaged in the trade.
Fee £6.00 per annum.

GRAPHICS WORKSHOP
For art teachers, designers, creative artists and art students wishing to produce lithographs from stone and plate. Reproduction facilities are also available for lino and woodcuts, wood engraving, etching and silk screen. One evening (2½ hours) per week for 26 weeks.
Entrance Requirements
Leaving Certificate (including Art) or equivalent.
Fee £6.00 per annum.

SCREEN PRINTING
This is a one-year course designed to prepare people engaged in screen printing for the Craft Certificate in Screen Printing of the City and Guilds of London Institute.
Fee £11 per annum.
School of Trades

EVENING COURSES

TECHNICIAN COURSES

CONSTRUCTION TECHNICIANS

E1.

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

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

Entrance Qualifications Employment in the Construction Industry.

Fee £11.00 per annum.

TRADE COURSES

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

E121. Carpentry and Joinery.
E149A. Welding (Short Courses).

Entrance Qualifications Employment in the relevant trade.

Fee £11.00 per annum.

(Applicants attending appropriate evening courses are not required to pay a tuition fee.)

EXAMINING BODIES

External Examinations

The courses relate to the Examinations of the following bodies:

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

   (b) Technician Certificate Examinations in Engineering

   (c) Trade Certificate Examinations in:
      (i) Bricklaying and Masonry.
      (ii) Metal Fabrication.
      (iii) Cabinetmaking.
      (iv) Composers' Work.
      (v) Composite Work.
      (vi) Letterpress Machine Work.
      (vii) Lithography & Photo Lithography.
      (viii) Bookbinding.
      (ix) Sheet Metalwork.

2. Professional Institutions

   (i) Construction 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.
   (x) Royal Institute of the Architects of Ireland.

3. Other Bodies

   (i) British Federation of Master Printers.
   (ii) City & Guilds of London Institute.
   (iii) Department of Transport & Power.
   (iv) Institute of Clerks of Works in Ireland.
   (v) Institute of the Motor Industry.
   (vi) National Association of Paper Merchants.
   (vii) Associated Examining Board (GCE).
   (viii) London University (GCE).
ACADEMIC STAFF

SCHOOL OF ARCHITECTURE
SURVEYING AND BUILDING

Head of School: Kevin Fox BArch FRIAI
ARHA

Department of Architecture and Town Planning

Head of Department: John J O'Keeffe FRIAI
BArch
Assistant Head: Liam Carlin MRIA ARIBA
Senior Lecturer: Anthony Johnson BArch
MRIA ARIBA

Staff Lecturers
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Neil Downes BArch MRIA
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Robert Fowler DipArch MRIA
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Dermot Healy DipArch MRIA
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Department of Surveying + Building Technology

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Assistant Head (Urban Economics): Laurence Liddle, MFRICS
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MSc(Econ) CertEd DipStats
Joseph P O'Byrne FCSI

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David Kelly FRICS
J H McFarlane FRICS
Alan S Morris LLB DipFE FRICS

SCHOOL OF ENGINEERING

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Department of Engineering Technology

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Department of Science + Mathematics
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SCHOOL OF PRINTING+BOOK PRODUCTION
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Assistant Heads of Department:
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Joseph Reddin Lic in Printing (C & G) AMIPtgM

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Institute of Building
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D Murphy MIoB

Construction Surveyors' Institute
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Society of Surveying Technicians
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Surveying and Building Technology Graduates Association
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Brick + Stonemasons' Society
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Joinery and Woodcutting Machinists' Work
J G McCormack Master Builders' Association
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P Marrey Furniture Manufacturer 20a St Joseph's Parade Dublin 7

Plastering
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T Byrne M Creedon Ltd 3 Ardee Road Dublin 6

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Association of Master Plumbers Heating & Ventilating Engineers of Ireland
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C Jones
J N Traynor
T Harrington

Plumbing Trades' Union
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W D Britton Irish Master Printers' Association
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O A Curran Irish Graphical Society
B O Ceirbhail BA LLB Irish Graphical Society
E Dignam Stereotypers' Society
J Cullen Irish Bookbinders' & Allied Trades' Union
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