Part-time Courses 1995-96

City of Dublin Vocational Education Committee

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FOREWORD

I was very pleased to launch a new DIT initiative last year involving the production of a co-ordinated series of booklets that provide information about the part-time and apprenticeship courses which may be offered by the Institute in its different centres in the 1995/96 session. Since the establishment of the first of our Colleges in Kevin Street in 1887 there has been a special commitment to part-time education, and over the years many thousands of young people (and the not so young!) have benefitted from the wide range of courses that have been developed. Today some 13,000 part-time and apprentice students are enrolled in the Colleges of the Institute, which is by far the largest provision being made in this area by any Irish higher education institution.

As part of the process of implementing the Dublin Institute of Technology Act 1992, DIT will be involved in a reorganisation, leading to an overall integrated structure, which hopefully will enable it to offer a wider range of courses and provide a better service to our students. It seems likely that most of the disciplines will continue to be based in their present sites, at least for the time being, with one major exception - the activities of the former College of Commerce in Rathmines were transferred to a new purpose built 10,000 square metre college in Aungier Street in September 1994.

We are very aware of the rapid pace of technological change and the need for people to keep abreast of new developments or prepare for new career directions. We hope that you will find a course that is of interest to you in DIT. If not, you might contact the College Department associated with the broad discipline area and make them aware of your area of interest or needs. We are anxious to respond as comprehensively as possible to demands, having regard to available resources, and many of our present courses were developed in response to such expressions of interest. Enquiries from employers, professional bodies and other groups are also welcome in this context.

If you do decide to pursue a part-time or apprenticeship course in DIT we hope that you will both enjoy and benefit from your time with us.

Dr. Brendan Goldsmith.
President.

INTRODUCTION

The College has a strong commitment to providing a wide range of part-time day and/or evening courses relating to its main specialisations in Construction, Engineering and Printing disciplines and associated areas. The aim of these courses is to provide both young people, and the not so young, with opportunities to achieve worthwhile qualifications and to enhance and broaden their existing qualifications base.

METHOD OF APPLICATION AND ENROLMENT

Application and admission to part-time day and evening courses is by personal attendance for interview at the College between 6.30 p.m. and 8.00 p.m. in accordance with the following schedule.

Monday, 11th September, and Tuesday 12th September
Enrolment for all part-time and evening courses provided by the College except courses in: Printing, Automobile and Aeronautical Engineering.

Wednesday, 13th September, and Thursday, 14th September
Enrolment for courses in Printing, Automobile and Aeronautical Engineering.

Enrolment for all other part-time day and evening courses in which vacancies remain.

Prior application or contact with the College is not necessary. Candidates are encouraged to bring with them evidence of existing qualifications and employment together with the specified tuition fee to enable them to complete the enrolment if they are acceptable and permitted to do so. Classes are generally scheduled to commence during the week commencing September 25th and those who have enrolled will be expected to report for classes in accordance with the schedule which will be available.
CONSTRUCTION TECHNOLOGY CERTIFICATE/ DIPLOMA PART-TIME
This day release course is similar to the wholetime Construction Technology Certificate/Diploma course (DT114) and leads to the award of the Construction Technology Certificate/Diploma. Classes are scheduled on one day and two evenings per week over a period of four years. Entry to this course is open to those holding:

(a) The secondary schools Leaving Certificate in at least five subjects including Mathematics and English or an equivalent qualification.

(b) Appropriate employment in the Construction Industry.

Course fee

<table>
<thead>
<tr>
<th>First &amp; Second Years</th>
<th>£330</th>
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<tr>
<td>Subsequent Years</td>
<td>£230</td>
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</tbody>
</table>

Department in Charge: Surveying and Building Technology.

DIPLOMA/DEGREE IN CONSTRUCTION ECONOMICS PART-TIME
This day release course is similar to the corresponding wholetime course (FT02) and leads to the award of a Diploma/Degree in Construction Economics. Classes are scheduled on one day and two evenings per week over a period of six years. The academic entry qualifications to the First Year of the course are similar to those for FT110. Candidates holding relevant technician qualifications at an appropriate level may be eligible for exemptions from one or more years of the course. Candidates must be in appropriate employment in the Construction Industry.

Course fee

<table>
<thead>
<tr>
<th>Years One to Five</th>
<th>£640</th>
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<tr>
<td>Year Six</td>
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Department in Charge: Surveying & Building Technology.

PROFESSIONAL COURSE IN SURVEYING AND CONSTRUCTION STUDIES
This evening course assists students who hold Intermediate Level qualifications in the construction and surveying fields, in progressing to full professional qualifications of appropriate institutions. Students may attend classes up to two evenings per week depending on their choice of subjects.

Entry
Qualifications
Examination of C.I.O.B. or R.I.C.S., Part 1 examinations.

Course fee

£350

Department in Charge: Surveying and Building Technology.

GRADUATE DIPLOMA IN ARBITRATION LAW
The objectives of this one year part-time course are to provide participants with a better knowledge of the law and arbitration including the Arbitration Acts of 1954 and 1980. It has been developed at the request of and in co-operation with the Irish Branch of the Chartered Institute of Arbitrators. Normally this course runs on alternate years. It is expected that it will be provided in 1995/96.

Relevant professional qualification (e.g. Law, Engineering Architecture, Surveying, Accountancy, Insurance etc.) with exemptions from modules (a) and (b) for practising lawyers and those with a recognised law degree. Exceptionally, applications will be accepted from unqualified students who have appropriate training or experience. Selection will be subject to interview. Exempted students will be deemed to enrol in course B705A.

The course comprises three taught modules and two seminars.

The taught modules are:
(a) Legal Principles, Civil Procedure & Evidence (b) Contract & Tort and (c) Arbitration Law & Procedure, Alternative Methods of Dispute Resolution. The two seminars which are organised by the Irish Branch of the Chartered Institute of Arbitrators deal with:
(i) Introduction to Arbitration and
(ii) ADR and Award Writing.

They are subject to a separate fee payable to the Irish Branch of the Institute.
### Examinations & Awards

On successful completion of course students will be awarded the Dublin Institute of Technology Graduate Diploma in Arbitration Law. Depending on their results students may be exempted from Parts I and II of the examinations of the Chartered Institute of Arbitrators.

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<td>B705A</td>
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**Department in Charge:** Surveying & Building Technology

### B706

**GRADUATE DIPLOMA IN INTERNATIONAL ARBITRATION LAW**

The objectives of this one year part-time course are to provide a better knowledge of the practice of international arbitration law and procedures. It has been developed at the request of and in co-operation with the Irish Branch of the Chartered Institute of Arbitrators and will next be offered in the 1996/97 session.

**Entrance Requirements**

Application will be open to those holding the DIT Diploma in Arbitration Law, Fellows of the Chartered Institute of Arbitrators and those who have passed Parts I and II of the examinations of that Institute. Selection will be subject to interview.

**Course of Study**

The course comprises two taught modules and four special seminars. The taught modules are:

(a) Comparative Law & Procedure; (b) International Arbitration, Practice & Procedure. The special intensive two day seminars are led and directed by visiting specialist lecturers and are organised by the Irish branch of the Chartered Institute of Arbitrators.

**Examinations & Awards**

On successful completion of the course students will be awarded the Dublin Institute of Technology Graduate Diploma in International Arbitration Law.

<table>
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<tr>
<th>Course fee</th>
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<td>£600</td>
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**Department in Charge:** Surveying & Building Technology

### B707

**GRADUATE DIPLOMA IN PLANNING AND DEVELOPMENT ECONOMICS**

The objective of this part-time post-graduate course, which extends over two academic years, is to meet the educational requirements for practice as a Planning and Development Surveyor. The first year of this course will next be offered in the 1996/97 session.

1. (a) a recognised professional qualification in the fields of Planning, Architecture, Surveying, Engineering, Law, Accountancy or
   (b) an Honours Degree in an appropriate discipline viz. Surveying, Economics, Law, Geography, Business Studies.

2. Employment in, or evidence of appropriate post-certification work experience in the Built Environment field.

**Course of Study**

The course consists of two parts:


- Part II consists of one integrated subject area containing a number of elements under the general title 'Planning and Development Policies, Practice and Procedures'.

Part I examinations in the subjects listed above will be held at the end of Year 1. Part II examinations will be held and a major planning and development case study presented at the end of Year 2.

On successful completion of the course, students are expected to qualify for the award of a Dublin Institute of Technology Graduate Diploma in Land Use Economics. Exemption will be sought for holders of this Diploma from the Part II and III examinations of the Planning and Development Division of the Royal Institution of Chartered Surveyors.

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**Department in Charge:** Surveying & Building Technology.
SHORT COURSES
Short Courses in aspects of Building, Project Management and Computer Applications may be held during the session. Enquiries relating to these will be welcomed by the Department of Surveying and Building Technology.

Department in Charge Surveying and Building Technology.

FOUNDATION COURSE FOR DEGREE IN ENGINEERING
The Department of Engineering Technology may again offer the Foundation Course to a Diploma/Degree in Engineering on a part-time basis as it did in the 1994/95 session. It is open to those who already hold an appropriate Technician Diploma qualification at Distinction level.

This Foundation Course is intended for applicants who possess a Technician Diploma at Merit or Pass levels.

Following successful completion of this Foundation Course students may pursue a further three years on a Part-time basis with the object of achieving the qualifications of Diploma/Degree in Engineering. See course B742 below.

Course fee
£330

Department in Charge: Engineering Technology

PROFESSIONAL ENGINEERING BODIES COURSE
This is a day and/or evening course to prepare students for the Part II examinations of Professional Engineering Bodies including:-

(i) Institution of Engineers of Ireland.
(ii) The Engineering Council (UK) and its associated Professional Bodies such as:-

Course fee
£330

Department in Charge: Engineering Technology
PART-TIME DIPLOMA/DEGREE COURSE IN ENGINEERING:

This course will commence in September, 1995. Applications are invited from those who have successfully completed the Foundation Course in Engineering (B740) or those who hold an appropriate Technician Diploma at Distinction level. Depending on demand different options may be available.

Course Duration
Three years part-time

Course Fee
£640 (Examination fees included)

Further information available from:
Mr Oliver McNulty
Head, Department of Engineering Technology
Tel: 402 5637.

B742

CIVIL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA COURSE

This part-time day and/or evening course prepares students for a Technician Certificate/Diploma in Mechanical Engineering. Students are expected to be already suitably employed in Mechanical Engineering before commencing the course. It parallels the corresponding whole-time course DT 126 and follows the same core syllabus.

Leaving Certificate or equivalent with passes in Mathematics, a Science subject (preferably Physics), English, and two other subjects or a Senior Trade Certificate with suitable endorsement subjects.

Stage I - Mathematics; Engineering Science; Mechanics; Drawing; Complementary Studies; Building Technology and Engineering Materials; Surveying; Computing.

Stage II - Mathematics; Complementary Studies; Concrete; Geology and Soil Mechanics; Construction Services and Supplies; Planning and Administration; Structural Design and Detailing; Surveying;

Stage I1-Fifth and Sixth Years (Diploma Stage) This stage offers options in Municipal, Structural and Environmental Engineering. Candidates are expected to be employed and gaining suitable experience in the appropriate field and are required to have passed the Certificate Stage with merit, or have one year's suitable experience together with a Pass Certificate.

Municipal Option: Mathematics, Road Engineering, Management Studies, Planning and Building Regulations, Hydraulics and Sanitary Services, Structural Design and a Project.

Structural Option: Mathematics, Management Studies, Theory of Structures, Structural Design (Concrete), Structural Design (Steel), Municipal Engineering and a Project.


A number of subjects in the various options are taken in common, particularly in the fifth year.

The Environmental Option will commence in the academic year 1995/96.

At the end of each session students take a Dublin Institute of Technology examination.

Examinations and Other Requirements
Recognition by Professional Bodies

Course fee

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Department in Charge: Engineering Technology
BUILDING SERVICES ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA COURSE

This part-time day and/or evening course prepares students for a Technician Certificate/Diploma in Building Services Engineering. Students are expected to be already suitably employed in Building Services Engineering before commencing the course. It parallels the corresponding whole-time Course DT127 and follows the same core syllabus.

Leaving Certificate or equivalent with passes in Mathematics, a Science subject (preferably Physics) and two other subjects or a Senior Trade Certificate with suitable endorsement subjects.


Stage II - Third and Fourth Years (Certificate Stage): At this stage two options are available, Building Services and Refrigeration Technology.


At the end of each session students take a Dublin Institute of Technology Examination.

Stage I: £330
Stage II & III: £230

Department in Charge: Engineering Technology

MECHANICAL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA COURSE

This part-time day and/or evening course prepares students for a Technician Certificate/Diploma in Mechanical Engineering. Students are expected to be already suitably employed in Mechanical Engineering before commencing the course. It parallels the corresponding whole-time course DT128 and follows the same core syllabus.

Leaving Certificate or equivalent with passes in Mathematics, a Science subject (preferably Physics), English, and two other subjects or a Senior Trade Certificate with suitable endorsement subjects.


Stage II - Third and Fourth Years (Certificate Stage): At this stage three options are offered: Mechanical, Welding and Fluid Power.


Mechanical Option: Mechanics, Design and Materials, Manufacturing Technology and Design (years work).


Stage III: Fifth and Sixth Years (Diploma Stage): At this stage an Instrumentation Option is offered only on a part-time basis and candidates are expected to be employed in this field. Subjects: Mathematics, Management Studies, Electrotechnology and Electronics, Control Engineering, Industrial Instrumentation, Design, and Project Work together with either Mechanics and Manufacturing Design or Material Science and Process Plant Design and Management.
Candidates are required to have passed the Certificate Stage Merit or to have at least one year's suitable experience with a Pass Certificate.

At the end of each session students take a Dublin of Institute of Technology examination.

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 and can qualify for the non-Corporate Associateship grade of Membership after they have completed a suitable period of practical training.

Department in Charge: Engineering Technology.

**MECHANICAL ENGINEERING TECHNICIAN COURSE**

This evening course is intended to prepare students for the City & Guilds of London examinations for Mechanical Engineering Technicians (2550). The course is for technicians and draughtsmen engaged in the following types of employment:

- Machine Tool Operation
- Jig & Tool Design
- Engineering Production
- Design Draughtsmen.

**Entrance Requirements**

Elementary Stage Technological Certificate of the Department of Education in Mechanical Engineering or Leaving Certificate or endorsement in Senior Craft Certificate or equivalent.

**Course of Study**


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

**Examinations and Other Requirements**

Course fee

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<tr>
<th>Year</th>
<th>Fee</th>
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<tbody>
<tr>
<td>First &amp; Second Years</td>
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<td>Third Year</td>
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Department in Charge: Engineering Technology

**CERTIFIED MANUFACTURING TECHNOLOGIST**

This course is designed to assist students to prepare for the Manufacturing Engineering Part 1 examination of the Society of Manufacturing Engineers. This leads to the award of Certified Manufacturing Technologist (CMfgT). The course is aimed at technicians, supervisors, production managers and engineers engaged in manufacturing.

Candidates must have two or more years manufacturing third level engineering education experience and/or third level engineering education.

**Course Content**

A review of manufacturing engineering fundamentals including applied mechanics, materials, quality control, management, computer applications, automation, manufacturing processes and engineering design.

**Duration:**

One year, two evenings per week.

Department in Charge: Engineering Technology
INDUSTRIAL MANAGEMENT CERTIFICATE AND DIPLOMA COURSE
This is a two year evening Certificate course intended for engineering technicians and trainee production and industrial managers who wish to take the certificate examinations of the Institution of Industrial Managers. The Diploma stage (Third Year) is intended primarily for those responsible for discharging management functions.

Entrance Requirements
Students entering the Certificate course should have reached the Leaving Certificate standard of general education and be suitably employed as managers or supervisors in industry. Applicants holding an appropriate degree or professional qualification and substantial management experience may be admitted directly into the Third Year or Diploma Stage.

Course of Study
Second Year Subjects: Production and Operation Management, Industrial Finance, Personnel and Industrial Relations.
Third Year (Diploma Stage) Subjects: This involves a further one year period of study of Industrial Management Policy and Practice in which knowledge acquired during the Certificate course is applied to solve practical problems by an integrated approach using case studies, etc.

Examinations and Other Requirements
Students must pass a College examination at the end of each year. The examination is moderated by the Institution of Industrial Managers. Those who successfully complete the Certificate course qualify for Associate Membership of the Institution of Industrial Managers. Successful students may continue their studies on the one year Diploma course, which leads to Membership grade (MIIM).

Those who enrol are required to apply for student membership.

Course fee
First & Second Years £330
Third Year £230

Department in Charge: Engineering Technology

REFRIGERATION ENGINEERING TECHNICIAN
This is a two year course for technicians employed in the refrigeration engineering industry. Suitable students are prepared for the City & Guilds of London Institute examinations in the Science and Technology of Refrigeration (2570). The subjects of instruction are:- Science, Refrigeration Processes and Machinery, and Drawing.

Course fee
£330

Department in Charge: Engineering Technology.

SHORT COURSE PROGRAMME
A series of 1-5 day short courses on modern developments in Engineering Technology may be organised at different stages during the session. These may include:
(a) Low Cost Automation;
(b) Fluid Power;
(c) Maintenance Management Techniques;
(d) CAD/CAM
(e) New Developments in Welding Technology;
(f) Fuel Technology;
(g) Fire Safety;
(h) Structural Design Codes;
(j) New Materials;
(k) Water Pollution Control;
(l) Energy Conservation;
(m) Engineering Costing and Estimating.

Department in Charge: Engineering Technology.

MAINTENANCE TECHNOLOGY CERTIFICATE COURSE
This course will provide participants with a knowledge of maintenance strategies and skills to cope with the demands of modern maintenance requirements.

The course is organised on a modular basis and has considerable flexibility for craftspersons and other maintenance staff to enhance their qualifications.
Leaving Certificate in five subjects including English and Mathematics, or appropriate Senior Trades Certificate with endorsements or equivalent qualifications or mature applicants. Participants should have at least three years experience performing plant maintenance duties.

Certification will be provided by the National Council for Educational Awards and the course is offered in the NCEA ACCS mode to allow participants to study for individual subjects, groups of subjects or the entire course programme.

Certification will be provided on a technology option basis. When the requisite technology option and core subjects have been satisfactorily completed the award of National Certificate in Technology, (Maintenance Technology) will be made.

The following technology options and core subjects are initially being offered subject to demand.

**STAGE 1**
- **Common Core Subjects**
  - Mathematics, Computer Studies, Basic Technology, Maintenance Organisation, Technical Communication

  - **Fluid Power Technology Option**
    - Fluid Power Sciences
    - Fluid Power Plant 1
  - Refrigeration & Air Conditioning Option
    - Basic Heat, Fundamentals of Refrigeration

  **STAGE 2**
  - Common Core Subjects
    - Management of Maintenance
  - Computer Studies II

  - **Fluid Power Technology Option**
    - Fluid Power Science II
    - Fluid Power Plant II

**Entrance Requirements:**
- Leaving Certificate or Equivalent

**Course Objective:**
- Databases
- Computer Systems
- Spreadsheets
- Wordprocessing
- BASIC Language
- COBOL Language

**Course of Study:**
- 7261-212 Introduction to Computers I
- 7261-200 Basic Programming I
- 7261-201 Cobol Programming I

This course covers the fundamental principles of programming. Computers systems in general are covered and the students are introduced to computer application packages in addition to BASIC and COBOL languages.

**Entrance Requirements:**
- Leaving Certificate or Equivalent

**Timetable:**
- **DAY** | **TIME** | **ROOM**
- Wednesday 6.30 - 9.30 p.m. | 380
- Monday 6.30 - 9.30 p.m. | 380

**Duration:**
- One year, two evenings per week, Monday and Wednesday.

**Course fee:**
- £330

**Department in Charge:** Science, Mathematics & Computing
COMPUTER PROGRAMMING
This is a one year evening course. Students are prepared for the City & Guilds of London Institute Examinations 726 Information Technology Program. Successful candidates of this course will receive a City & Guilds Diploma in Programming (Level 2).
- 7261-212 Introduction to Computers
- 7261-238 Program Design Techniques 2
- 7261-221 COBOL Programming 2
- 7261-224 C Programming 2

Course Objective
This course provides an extensive coverage of programming, with emphasis on C and COBOL languages. The principles of structured design and data processing are covered.

Course of Study
- Introductory Computing
- Structured design
- COBOL
- C
- File/Data Processing

Entrance Requirements
(a) Leaving Certificate or Equivalent
(b) B70 Introductory Programming or relevant experience.

Duration
One Year, two evenings per week, Tuesday and Thursday

Course fee
£330

Department in Charge: Science, Mathematics & Computing

ADVANCED PROGRAMMING
This is a one year evening course. Students are prepared for the City & Guilds of London Institute Examination 425 'Applicants Programming Certificate'.

Course Objectives
This is an advanced applications programming course enabling the student to design and develop commercial systems using advanced programming and design techniques. This course prepares students for work as a junior programmer.

Course of Study
- Program Design
- Structured Programming
- Problem Solving
- Design & Specification Tools
- Fourth Generation Languages
- Databases
- Program Documentation

Entrance Requirements
(a) Leaving Certificate or equivalent
(b) City & Guilds Preliminary Certificate in Applications Programming or equivalent

Course fee
£330

Department in Charge: Science, Mathematics & Computing

AUTOLOGIN
This is a one year evening course. Students are prepared for the City & Guilds of London Institute Examination 4351-01 'Computer-aided Draughting and Design using AutoCAD'.

Course Objectives
To give a broad knowledge of the fundamentals of computer aided design using AutoCAD, and to allow the successful student to work in a CAD orientated design environment.

Course of Study
System requirements and configuration, drawing set-up and drawing aids, operational efficiency, drawing and editing, dimensioning and cross hatching, drawing display and plotting.

Entrance Requirements
(a) Leaving Certificate or Equivalent.
(b) Reference

Duration
One Year, one evening per week - Monday

Course fee
£330

Department in Charge: Science, Mathematics & Computing
This is a one year evening course. Students are prepared for the City & Guilds of London Institute Course 4353-03 “Three Dimensional Design using AutoCad.”

**Course Objectives**
To give a thorough knowledge of the important aspects of Computer Aided Design particularly as it relates to three dimensional applications. To enable the successful student to work in a modern technological environment.

**Course of Study**
Three dimensional co-ordinate systems, linear and surface entities in 3D, world and alternatives construction planes, presentation of models using parallel and perspective projection, plotting of single and multiple views.

**Entrance Requirements**
(a) Leaving Certificate or Equivalent.
(b) City & Guilds 4351-01 “Computer Aided Design using AutoCad” or Equivalent.

**Duration**
One year, one evening per week, (Thursday)

**Course Fee**
£330

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**B792**

**DATABASES & SPREADSHEETS**
This is a one year evening course. Students are prepared for the City & Guilds of London Institute Examinations from the 726 Information Technology Program. Successful candidates of this course and one of B792, B781 and B782 courses will receive a City & Guilds Diploma in Computer Applications (Level 2).

- 7261-421 Databases 2
- 7261-422 Spreadsheets 2

**Course Objectives**
The successful candidate will have competency in the use of spreadsheet and database systems.

**Entrance Requirements**
Leaving Certificate or Equivalent.

**Course Fee**
£230

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**B791**

**WORDPROCESSING & DESK TOP PUBLISHING**
This is a one year evening course. Students are prepared for the City & Guilds of London Institute Course 726 Information Technology Program. Successful candidates of this course and one of B792, B781 and B782 courses will receive a City & Guilds Diploma in Computer Applications (Level 2).

- 7261-420 Word Processing 2
- 7261-427 Desktop Publishing 2

**Course Objectives**
The successful candidate will have competency in the use of wordprocessing and DTP systems.

**Course of Study**
- Wordprocessing
- Desktop publishing
- Documents Preparation
- Computer Hardware
- Computer Software

**Entrance Requirements**
Leaving Certificate or Equivalent.

**Course Fee**
£230

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**B783**

**AUTOCAD CUSTOMISATION AND SYSTEM MANAGEMENT**
This is a one year evening course. Students are prepared for the City & Guilds of London Institute Course 4351-04 ‘AutoCAD Customisation and System Management’.

**Course Objectives**
To give a thorough knowledge of the important aspects of Computer Aided Design and associated technologies particularly in relation to their customisation and management. To enable the successful student to work in a modern technological environment.

**Course of Study**
Make and use slides, script files, linetypes and hatch patterns, define, edit and extract attributes, create customised menus and help files, make and use DXF and IGES files, load and execute LISP and ADS files, use and configure the AutoCAD and MS-DOS operating environments.

**Entrance Requirements**
(a) Leaving Certificate or Equivalent
(b) City & Guilds 4351-01 Computer Aided Design using AutoCAD or equivalent.

**Duration**
One year, one evening per week (Wednesday)

**Course Fee**
£330

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**B781**

**WORDPROCESSING & DESK TOP PUBLISHING**
This is a one year evening course. Students are prepared for the City & Guilds of London Institute Course 726 Information Technology Program. Successful candidates of this course and one of B792, B781 and B782 courses will receive a City & Guilds Diploma in Computer Applications (Level 2).

- 7261-420 Word Processing 2
- 7261-427 Desktop Publishing 2

**Course Objectives**
The successful candidate will have competency in the use of wordprocessing and DTP systems.

**Course of Study**
- Wordprocessing
- Desktop publishing
- Documents Preparation
- Computer Hardware
- Computer Software

**Entrance Requirements**
Leaving Certificate or Equivalent.

**Course Fee**
£230

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**B782**

**AUTOCAD - THREE DIMENSIONAL**
This is a one year evening course. Students are prepared for the City & Guilds of London Institute Course 4353-03 “Three Dimensional Design using AutoCad”.

**Course Objectives**
To give a thorough knowledge of the important aspects of Computer Aided Design particularly as it relates to three dimensional applications. To enable the successful student to work in a modern technological environment.

**Course of Study**
Three dimensional co-ordinate systems, linear and surface entities in 3D, world and alternatives construction planes, presentation of models using parallel and perspective projection, plotting of single and multiple views.

**Entrance Requirements**
(a) Leaving Certificate or Equivalent.
(b) City & Guilds 4351-01 “Computer Aided Design using AutoCad” or Equivalent.

**Duration**
One year, one evening per week, (Thursday)

**Course Fee**
£330
Course of Study
- Databases
- Spreadsheets
- Data Management
- Computer Hardware
- Computer Software

Entrance Requirements
Leaving Certificate or Equivalent

Course fee
£230

Department in Charge: Science, Mathematics & Computing

CRAFT & TRADE RELATED COURSES
Enquirers seeking further information about craft and trade related courses should contact Departments as follows:

Construction Trades 'A' B102, B104, B106, B108

Construction Trades 'B' B111, B112, B113, B114, B115, B117, B118, B119, B120

Metal Fabrication & Plumbing B121, B122, B123, B124, B125, B126, B127, B128, B129, B130, B131, B132, B133, B134, B135, B136, B137

Engineering Trades B138, B139, B140, B142, B143, B144, B145, B146, B147, B148

Transport Engineering B150, B151, B152, B153, B154, B155, B163, B164, B165, B167, B171, B172, B173, B174, B175, B176, B177, B178, B179

Printing and Graphic Communications B180, B182, B183, B184, B185, B186, B187, B188, B189, B191, B192, B193, B197, B199

DECORATIVE PLASTERWORK
The course is designed to provide the participants with the necessary knowledge and skills to produce and fix decorative plasterwork to various dimensions and designs.

Course Content
Squeeze making; Profile preparation and production; Running moulds; Casting and fixing cornices; Designing and casting centre pieces; Rubber mould production; In-situ cornices; Repairs to existing plasterwork.

Entrance Requirements
Knowledge of Plastering and Construction

Course Duration
30 weeks at 3 hours per week
**B104**

**VISUAL DESIGN IN BUILDING WORK**

This course is designed to give craftspersons an opportunity to study colour, texture and pattern and broken colour work in Buildings.

**Duration**

One year - 30 weeks at 5 hours per week

**Course Content**

The effects of colour, light, pattern and texture on architectural form and character.

**Entry Requirements**

Senior Trade Certificate of the Department of Education in an appropriate trade or an equivalent qualification.

**Award**

City and Guilds of London Institute Certificate 6000-1-09 and 6000-1-5

**Course fee**

£330

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**B106**

**SIGNWORK—ADVANCED (PARTS 1 & 2)**

This course is intended to give painting and decorating craftspersons an opportunity to improve their knowledge and skill in the preparation of signwork.

**Duration**

One year - 30 weeks at 5 hours per week - Part 1.
One year - 30 weeks at 5 hours per week—Part 2.

**Course Content**

Design, shape and form in signwork. Production of signs, Glass Gilding and Etching, Ornamental Gilding, Silk Screening.

**Course fee**

£230

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**B108**

**BUILDING MAINTENANCE MANAGEMENT (MODULAR)**

The course is designed to prepare students for corporate membership of the Institute of Maintenance and Building Management and to equip them with additional skills for employment and career development.

**Entrance Requirement**

(a) Employment in the Construction/Maintenance Industry
(b) Interview

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**Course of Study**

This is a part-time modular course which offers programmes at Certificate and Diploma level. The purpose of the Certificate Programme is to re-introduce students to a course of study at a level which meets their needs and to provide a pre-entry qualification for the Diploma programme.

**Certificate Programme**


**Diploma Programme**

Modules include Maintenance of Buildings, Planning and Management, Personnel and Industrial Relations, Finance and Costings, Legal and Contractual Responsibilities, Marketing and Sales, Improved Methods of Materials Support.

**Services**

Classes are held in the evening from 6 - 9 pm and average 36 hours per module. A Continuing Professional Development (CPD) Certificate will be awarded to students who successfully complete individual modules.

**Course fee**

£140 per module - Certificate Programme
£230 per module - Diploma Programme

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**B111**

**CABINETMAKING/CHAIRMAKING**

This course is designed to assist students in preparing for the Senior Trade Certificate Examination of the Department of Education and the Advanced Certificates of the City & Guilds of London Institute.

**Duration**

One year, two evenings per week.

**Subjects**

Practical, Trade Theory & Drawing.

**Entry Requirements**

Prospective students must have completed 3 years of apprenticeship and hold the Department of Education Junior Trade Certificate.

**Course fee**

£330
B117

WOODTURNING
This course is of 10 weeks duration and covers the basics of woodturning. Students attend classes one evening per week.
Course fee
£100

B118

TIMBER TECHNOLOGY (INSTITUTE OF WOOD SCIENCE-CERTIFICATE COURSE)
The aim of the Institute of Wood Science is to advance and encourage the scientific, technical, practical and general knowledge of timber and wood based materials.

This course of study is designed to satisfy that aim, providing a focused training programme for those involved with either the growth, utilisation, sale or treatment of timber and timber products.

Course outline
The course prepares participants for the Institute of Wood Science Certificate level examination, is modular in design and comprises five modules:

- Module 1 Wood as a Material
- Module 2 Timber Trading
- Module 3 Drying and Strength
- Module 4 Conversion and Preservation
- Module 5 Panel Products and Utilisation

Duration
The course will be delivered on two evenings per week and will run for 26 weeks.

Entry Requirements
Mature students will be accepted on the basis of relevant experience and/or interview. New school leavers will be accepted provided they hold a minimum of grade B in a relevant subject in the Intermediate/Junior Certificate and will be subject to interview. They are, however, encouraged to gain 12 months trade experience before application.

Qualification
Successful participants are rewarded with an internationally recognised professional qualification in timber technology, membership of the Institute of Wood Science at certificate level, and may use the letters CM IWSc.
Course fee
£330

B119

BUILDING TECHNOLOGY
This is a three year evening course in Building Construction and associated subjects in preparation for the Department of Education technological examinations.

Duration
3 years - 3 evenings per week.

Objectives
Elementary level examination at the end of the first year.
Intermediate level examination at the end of the second year.
Advanced level examination at the end of the third year.

Entry Requirements
Employment in the Construction Industry and possession of a Junior Certificate with a Grade C in Mathematics and Mechanical Drawing, or better.

Exemption from First Year of the Course may be granted to an applicant who has achieved an acceptable level in Drawing and Building Subjects. Success in the Elementary Stage Examination is a requirement for entry into the Second Year of the Course.

Success in the Intermediate Stage Examination is a requirement for entry into the Final Year of the Course.

Subjects
1st Year
Building Construction, Mathematics and Geometry.

2nd Year

3rd Year
Building Construction, Builders Quantities, Plane and Solid Geometry.

Course fee
First and Second Years £330
Third Year £230
## CRAFT TECHNICIAN CERTIFICATE COURSE IN BUILDING

This is a three-year part-time course. The course has been designed to enable students on completion of their craft studies to further their career prospects in the Building Industry.

Prospective students must have completed at least three years as an apprentice in a recognised building trade and hold a Department of Education Senior Trade Certificate or equivalent trade qualifications.

**Stage I:**
Building Construction 1, Building Measurement, Estimating and Costing, Site Supervision and Building Science.

**Stage II:**

**Stage III:**

Craft Based Technician Certificate in Building (Dublin Institute of Technology)

<table>
<thead>
<tr>
<th>Course fee</th>
<th>First and Second Years</th>
<th>£330</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Third Year</td>
<td>£230</td>
</tr>
</tbody>
</table>

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## CARPENTRY AND JOINERY-ADVANCED

This course is designed to assist senior apprentices and craftspersons to prepare for the Senior Trade Certificate Examination of the Department of Education and the Advanced Certificate of the City & Guilds of London Institute.

**Duration**
One year, two evenings per week.

**Subjects**
Trade Theory, Trade Practice & Drawing.

**Entry Requirements**
Prospective students must have passed the Junior Trade Certificate Examination in Carpentry and Joinery.

**Course fee**
£330

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## WOODCUTTING MACHINISTS

This course is designed to update the skills of Woodcutting Machinists in modern machining techniques including the use of a Computer-based Numerically Controlled Router.

**Course fee**
£100 for 10 weeks

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## WOOD CUTTING MACHINISTS - CNC

This course is designed to give students an appreciation of the practical use of woodcutting machines to Junior Trade Certificate standard of the Department of Education. Prospective students must be employed in a timber-related trade. The course duration is two evenings per week over one year.

**Course fee**
£330

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## WOOD CARVING

Covering the basic skills of wood carving, this course is of ten weeks duration.

**Course fee**
£100
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
<th>Entrance Requirements</th>
<th>Duration</th>
<th>Course of Study</th>
<th>Course Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>B121</td>
<td><strong>METAL ARC AND OXY-ACETYLENE WELDING</strong></td>
<td>This course is designed to meet the needs of craftspersons and senior apprentices employed in the engineering and allied industries. The course covers manual metal arc and oxy-acetylene welding to EN287 and BS4872 standards on low-carbon steel plates and pipes.</td>
<td>Employed in one of the engineering or allied trades.</td>
<td>One evening per week (7.00pm to 10.00pm) from September to Easter.</td>
<td>Practical manual metal arc and oxy-acetylene welding on low-carbon steel plate and pipe.</td>
<td>£230</td>
</tr>
<tr>
<td>B122</td>
<td><strong>GAS SHIELDED ARC WELDING</strong></td>
<td>This course is designed to meet the needs of craftspersons and senior apprentices in Engineering and allied industries in metal arc gas shielded and Tungsten arc gas shielded welding to ASme IX, EN287 and BS4872 tests on stainless steel, low-carbon steel and aluminium.</td>
<td>Employed in one of the engineering or allied trades.</td>
<td>One evening per week (7.00pm to 10.00pm) from September to Easter.</td>
<td>Practical metal arc gas shielded welding on low-carbon steel and Tungsten arc gas shielded welding on aluminium and stainless steel.</td>
<td>£230</td>
</tr>
<tr>
<td>B123</td>
<td><strong>M.M.A. ADVANCED PLATE AND PIPE WELDING</strong></td>
<td>This course is designed to meet the needs of craftspersons and senior apprentices in engineering or allied trades in manual metal arc welding to ASme IX, EN287 and BS4872 tests on low-carbon steel plate and pipe.</td>
<td>Employed in one of the engineering or allied trades.</td>
<td>One evening per week (7.00pm to 10.00pm) from September to Easter.</td>
<td>Practical manual metal arc welding on low-carbon steel plate and pipe.</td>
<td>£230</td>
</tr>
<tr>
<td>B124</td>
<td><strong>PIPE FABRICATION</strong></td>
<td>This course is designed to meet the needs of craftspersons and senior apprentices in pipe fabrication and is suitable to those employed in the following areas: pipe fitting, welding, sheetmetal work, metal fabrication.</td>
<td>Employed in an engineering or allied trade area.</td>
<td>One evening per week from 7.00pm to 10.00pm for 20 weeks, beginning September/October.</td>
<td>Theory-drawing and practical work on all types of pipe fabrications.</td>
<td>£230</td>
</tr>
</tbody>
</table>
**B125**

**LIGHT GAUGE FABRICATION**
This course has been designed to meet the needs of people in the engineering and allied industries who wish to gain an understanding and appreciation of the methods of working and joining metals such as copper, low-carbon steel, aluminium and brass.

**Duration**
One evening per week from 7.00pm to 10.00pm for 20 weeks, beginning September/October.

**Course of Study**
This course will cover repousse work, hollowing, planishing, raising, metal shrinking/stretching, decorating and double curvature work, moulding, mechanical and thermal joining processes.

**Course fee**
£230

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**B126**

**WELDING REPAIR AND MAINTENANCE**
This course is designed to meet the needs of persons in the areas of repair and maintenance welding for the engineering industry. The materials used will be low-carbon steel, stainless steel, aluminium, copper, brass and cast iron joined by the manual metal arc, M.I.G./M.A.G., T.I.G. and oxy-acetylene welding processes.

**Duration**
One evening per week (7.00pm to 10.00pm) from September to Easter.

**Course of Study**
Theology of the practical methods used to repair low-carbon steel, stainless steel, aluminium, copper, brass and cast iron materials.

**Course fee**
£230

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**B127**

**ART METAL CASTING**
To introduce Artists and Sculptors and others involved in making statuary and Objets d’Art, to good design practice and the principles involved in casting in Brass, Bronze and Aluminium.

**Duration**
One evening per week for 8 weeks or other suitable arrangements.

**Course fee**
£100

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**B128**

**SHEET METAL WORK**
This course is designed to assist Craftsmen to prepare for the Senior Trade Certificate Examinations of the Department of Education or the City and Guilds of London.

**Duration**
One year, two evenings per week.

**Subjects**
Trade Theory & Drawing.

**Entry Requirements**
Prospective students must have completed 3 years of apprenticeship and hold the Department of Education Junior Trade Certificate.

**Course fee**
£330

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**B129**

**SHEET METAL WORK—UPDATING OF SKILLS**
This course is designed for the Sheetmetal work crafts person who require to update their practical skills.

**Duration**
Ten weeks, meeting on two evenings per week, Monday and Tuesday 7.00 p.m. to 9.30 p.m.

**Course Content**
The use of numerical controlled Press Brake and Modern Welding Processes as applied to the Sheet Metal Industry.

**Entry Requirements**
Employment in the Sheet Metal Industry.

**Course fee**
£100
METAL FABRICATION
This course is designed to assist Senior Apprentices and Craftsmen to prepare for the Senior Trade Certificate Examination of the Department of Education or City and Guilds of London.

Duration
One year, two evenings per week.

Subjects
Trade Theory & Drawing.

Entry Requirements:
Prospective apprentices must have completed at least three years of apprenticeship and have passed the Junior Trade Certificate.

Course fee
£330

PLUMBING
This course is designed to assist Senior Apprentices and Craftsmen to prepare for the Senior Trade Certificate Examination of the Department of Education.

Duration
One year, two evenings per week.

Subjects
Trade Theory & Drawing.

Entry Requirements:
Prospective apprentices must have completed at least three years of apprenticeship and have passed the Junior Trade Certificate.

Course fee
£330

CRAFT TECHNICIAN CERTIFICATE COURSE IN PLUMBING
This three-year course of study has been designed to prepare craftspersons as craft technicians in Plumbing. Attendance is on three evenings per week (or alternatively on one day and one evening per week).

Course of Study
- **Stage I**: Hot and Cold Water Systems, Gas Installations, Sanitation and Drainage, Mathematics, Science, Drawing and Design.
- **Stage II**: Mathematics, Science, Mechanics of Fluids, Heating Technology, Drawing and Design.
- **Stage III**: Origination and Management Techniques, Estimating and Quantities, Heating Technology, Welding Technology, Design Project.

TENDERING AND ESTIMATING PRACTICE (MECHANICAL SERVICES INDUSTRY)
One year - one evening per week.

Subjects

Entry Requirements
Department of Education Senior Trade Certificate.

Course fee
£320

HEATING AND PLUMBING MERCHANTS / PROVIDERS COURSE
One year - one evening per week.

Subjects

Entry Requirements
Employed in the Industry.

Course fee
£230
## DOMESTIC HEATING ENGINEERS COURSE
This course is intended for persons employed in the heating industry and will provide a broad technical education and understanding of the principles and techniques involved in heat engineering. The course is run in conjunction with the Institute of Domestic Heating Engineers. Applications for admission to the course should in the first instance be addressed to:

**The Institute of Domestic Heating Engineers**
**15 Summerfield, Old Bawn, Tallaght, Dublin 24.**

<table>
<thead>
<tr>
<th>Entry Requirements</th>
<th>Department of Education Senior Trade Certificate in Plumbing and be employed in the industry.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration</td>
<td>Two years, two evenings per week, Monday and Tuesday</td>
</tr>
<tr>
<td>Subjects</td>
<td>Heating Technology; Gas Technology; Management Techniques; Tendering and Estimating; Mechanical Services Drafting.</td>
</tr>
<tr>
<td>Course Fee</td>
<td>£330</td>
</tr>
</tbody>
</table>

## DOMESTIC GAS INSTALLATIONS (IRISH STANDARD 813)
This course will provide the participants with a detailed knowledge of the requirements of the new Irish Standard 813 which covers all types of Domestic Gas Installations.

<table>
<thead>
<tr>
<th>Entry Requirements</th>
<th>Employed in the Gas, Mechanical or Building Services Industry.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration</td>
<td>One year, one evening per week from September to Easter.</td>
</tr>
<tr>
<td>Course fee</td>
<td>£230</td>
</tr>
</tbody>
</table>

## EFFICIENT ENERGY PRACTICE
This course has been specifically designed to provide a means of meeting the demand for efficient operation and control of heating and energy using existing processes and installations. It will provide an understanding of several different skills and disciplines required in the control and management of energy.

<table>
<thead>
<tr>
<th>Course Duration</th>
<th>One evening per week for the full session.</th>
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</thead>
<tbody>
<tr>
<td>Course Content</td>
<td>Quality Legislation and EU Directives; Financial Consideration of Quality; Quality Documentation; Quality Assurance; Practical Problem Solving Techniques and Applications; Case Studies and Site Visits.</td>
</tr>
<tr>
<td>Course fee</td>
<td>£230</td>
</tr>
</tbody>
</table>
**ENGINEERING SYSTEMS MAINTENANCE**

This course is designed for apprentices, craftspersons and craft-based technicians who wish to acquire a competence in General Maintenance Technology and Practice.

**Objective**
City & Guilds of London Institute Parts II and III 2140 Certificate in Engineering Systems Maintenance.

Candidates who successfully complete each element will be issued with a record of achievement and will qualify for the Part II Certificate when they have passed the two core subjects and any three of the optional subjects for Part II. Two Part III optional subjects are required for the Part III Advanced Certificate.

**Core Subjects**
General Maintenance Technology, Maintenance Organisation.

**Optional Subjects**
- Pneumatics, Hydraulics, Mechanical Power Transmissions

**Duration**
Each subject will involve attendance of between 1.5 and 3 hours per week.

**Course fee**
£230

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**ENGINEERING CRAFT STUDIES-INSPECTION (METROLOGY)**

The City & Guilds of London Institute Mechanical Engineering Craft Studies Certificate 2050, Part III. This course combines both the theoretical and practical aspects, making use of a well-equipped metrology laboratory.

**Objective**
Craft apprenticeship, technician or other engineering qualifications.

**Course Duration**
One year, one evening per week.

**Course fee**
£230

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**COMPUTER-AIDED ENGINEERING**

A series of short courses for those requiring an understanding of new engineering technologies and their implications - City and Guilds 2302 scheme.

**Course Content**
- Basic NC/CNC
- Basic CAD/CAM
- Basic Robotics

**Duration**
10 weeks—one evening per week or an alternate daytime arrangement, depending on demand.

**Entry Requirements**
Applicants should have a suitable engineering background as craftsmen, technicians or other technical positions.

**Course fee**
£100

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**NC/CNC MACHINE SETTING AND OPERATION**

This is a one-year course to prepare mechanical engineering craftspersons for the City & Guilds 2303 Level III Certificate. It provides an introduction to CNC machines and their programming.

**Course fee**
£230

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**NC/CNC—PART PROGRAMMING**

The City & Guilds of London Institute 2303 Level III Certificate.

**Course Content**
Simple operating principles of Numerical Control, Data Storage and Transmission Media, the NC Machine-Axis, and the purpose of a machine datum, the principle of co-ordinate dimensioning, pre Planning for Part Programming, part Programming.

**Course Duration**
One year (one evening per week).

**Entry Requirements**
City and Guilds of London Institute 2303 Certificate (See B141D)

**Course fee**
£230
NC/CNC—ADVANCED PART PROGRAMMING

The City & Guilds of London Institute 2304 Level IV Certificate.

Planning programming procedures, the efficient use of canned cycles, sub-routines and other facilities on a number of CNC machines, develop programmes using CAD/CAM Packages, consider the implications of Computer-Aided Manufacturing in Industry, produce working parts on CNC Milling, Turning and Wire Eroding Machines.

One year (one evening per week).

City & Guilds of London Institute 2303 Level III Certificate.

FLIGHT OPERATION OFFICER (DISPATCHER COURSE)

This course provides instruction for flight operations officers in all operational aspects related to the preparation for commercial flights and the ground monitoring of all flights from a safety and efficiency viewpoint from the ground. It includes flight planning, aircraft loading, flight watch and operational considerations such as weight and runway limitations for the aircraft performance, weather, and ATC procedures.

The course follows the guidelines of ICAO standardised course 201

One year, two evenings per week.

A general knowledge of aviation appropriate to personnel employed in airlines or associated operations.

PRODUCTION PLANNING COURSE (I.A.T.A.)

This course provides instruction for personnel employed in the Planning Departments of the Aeronautical Industry. The course covers Aircraft Organisation and Practice, and Aircraft Operational and Maintenance Planning.

One year, one evening per week.

Personnel employed in Planning Departments in the Industry or holders of Part II Examinations of the City & Guilds of London Institute Certificate Course (258) Part II

1 year, 2 evenings per week.

£330

AERONAUTICAL MAINTENANCE ENGINEERS' LICENCES

'B' LICENCE—F50 P&W 125 ENGINE
'B' LICENCE—B737
'B' LICENCE—B747
'B' LICENCE—B727
'C' LICENCE—P & W JT9D
'C' LICENCE—P & W JT8D
'X' LICENCE—INSTRUMENTS
'X' LICENCE—ELECTRICAL
'X' LICENCE—AVIONICS
'X' LICENCE—RADIO
'X' LICENCE—RADIO (RADAR ENDORSEMENT)
SHORTS 360 AIRCRAFT AND PT6 ENGINE
'B' LICENCES—AVIONICS
B 737 CFM 56-3 ENGINE.
B737—200/300 DIFFERENCES COURSE.
B737—400/500 DIFFERENCES COURSE.
B767—300 AIR FRAME

The above courses provide instruction for Aircraft Maintenance Engineers wishing to take the appropriate licence examination of the Irish Aviation Authority. The courses are of one year duration requiring attendance on one evening per week.

Basic Aeronautical Engineering Certificate in appropriate Category.

£230
### B153

**JET ENGINE OVERHAUL PROCEDURES**

This course provides instruction in Jet Engine design and overhaul procedures.

- **Entrance Requirements**: Employment in the Industry.
- **Duration**: 1 year, 1 evening per week
- **Course fee**: £230

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### B154

**AERONAUTICAL ENGINEERING CRAFT STUDIES**

**Stage 1**

This is a one year 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 of London Institute Examinations in Aeronautical Engineering Industry.

- **Entrance Requirements**: Junior Certificate and be employed in the Aeronautical Engineering Industry.

**Stage 2 (Mechanical)**

This one year course is designed to prepare students for Part II of the City & Guilds of London Examinations in Aeronautical Engineering Craft Studies (Course No. 2080). Classes are held on three evenings per week from October to May.

- **Entrance Requirements**: Part II City & Guilds Aero Engineering Craft Studies or Aeronautical Engineering Occupational Competences.
- **Course fee**: £330
  - First Year
  - Second Year

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### B155

**BASIC AERONAUTICAL ENGINEERING CERTIFICATES**

- AIRFRAMES PRESSURISED (B.A.E.C.2)
- PISTON ENGINES (B.A.E.C.3)
- TURBO—PROP & TURBO—JET ENGINES (B.A.E.C.4)
- HELICOPTERS (LESS ENGINES) (B.A.E.C.5)
- ELECTRICAL (B.A.E.C.6)
- RADIO (B.A.E.C.7)
- INSTRUMENTS (B.A.E.C.8)
- INSPECTION & REPAIR OF METAL AND COMPOSITES AIRCRAFT STRUCTURES BAEC 10

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 Irish Aviation Authority.

- **Entrance Requirements**: Not less than two years employment in the Aeronautical Engineering Industry.
- **Course fee**: £230

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### B163

**PRIVATE AIRCRAFT PILOT'S LICENCE**

This course provides instruction in Meteorology, Navigation, Air Legislation, Theory of Flight and Aircraft Limitations, for personnel wishing to take the Irish Aviation Authority Private Pilots Licence.

- **Duration of Course**: 1 year, one evening per week
- **Course fee**: £230

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### B164

**PRIVATE PILOTS LICENCE (INSTRUMENT RATING)**

This course provides instruction for personnel who already hold a Private Licence and wish to take the Irish Aviation Authority Private Licence Instrument Rating.

- **Course Duration**: 1 year, 1 evening per week.
- **Course fee**: £230
**B165**
Objective
Motor Cycle Mechanics
Course Duration
The City & Guilds of London Institute Craft Certificate 3890.
Subjects
One year of 30 weeks, 2 evenings (6 hours) each week.
Entrance
Motor Cycle Technology, Motor Cycle Maintenance Repair.
Requirements
Employment as a motor cycle mechanic.
Course fee
£330

**B170**
Objective
Motor Vehicle Parts Personnel
Course Duration
The City & Guilds of London Institute 3840, Vehicle Parts Personnel, Parts 1 and 2
Subjects
Two years, 6 hours per week
Entrance
Junior Certificate and employment in the motor industry
Requirements
Course fee
£330

**B171**
Objective
Motor Vehicle Parts Personnel—Distance Learning
Course Duration
To prepare students for vehicle parts personnel 384 parts 1 and 2 certificate of the City and Guilds of London Institute.
Entry
(1) Junior Certificate
(2) Employment in the motor industry
Requirements
The course comprises a series of units which are studied at home. A short test at the end of each unit must be satisfactorily completed before proceeding to the next unit.
Course Fee
Subjects studied include; parts service administration, stock management and control, commercial practice, parts distribution, legal aspects, customer relations and communications.
Course fee
£230

**B172**
Objective
Motor Vehicle Craft Studies—Diagnostic Techniques
Course Duration
The City & Guilds of London Institute 3810 Part III.
Subjects
One year, (3-10 week modules)
Attendance
Diagnostic Techniques (engine), Transmission Diagnostic Techniques.
Entrance
Qualifications
Department of Education Senior Trade Certificate
Course fee
£230

**B173**
Objective
Motor Vehicle Craft Studies—Compressed Air Systems; C.I. Engines; Fuel Injection Equipment
Course Duration
The City & Guilds of London Institute 3810 Part III.
Subjects
One year of 30 weeks, (3-10 week modules)
Attendance
Compressed Air Systems, Compression Ignition Engines, Fuel Injection Equipment.
Entrance
Qualifications
Department of Education Senior Trade Certificate.
Course fee
£230
## B174
### MOTOR VEHICLE CRAFT STUDIES - ELECTRICITY/ ELECTRONICS

**Objective**
The City & Guilds of London Institute 3810 Part III.

**Course Duration**
One year of 30 weeks.

**Attendance**
One evening (3 hours) each week.

**Subjects**
Motor Vehicle Electricity and Motor Vehicle Electronics.

**Entrance Qualifications**
Department of Education Advanced Technician Certificate.

**Course Fee**
£230

## B175
### AUTO-ENGINEERING TECHNICIANS

**Objective**
Department of Education Advanced Motor Car Engineering Technological Certificate and the City & Guilds of London Institute Motor Vehicle Technicians Full Technological Certificate (3900), Parts II and III.

**Course Duration**
1 year part-time (7 hours) and 1 evening (3 hours) each week for 35 weeks.

**Subjects**

**Entrance Qualifications**
Department of Education Senior Trade Certificate with endorsement subjects or Department of Education Intermediate Motor Car Engineering Technological Certificate (2 subjects) or the City & Guilds of London Institute 3900, Part 1.

**Course Fee**
£330

## B176
### AUTOMOBILE ENGINEERING UPDATING COURSES - CONTINUING EDUCATION PROGRAMME

**Objective**
Updating of trade personnel in modern developments relating to engines, transmission systems, electronics, brakes etc.

**Course Duration**
Two days to a few weeks—day and/or evening.

**Entry Requirements**
Senior Trade Certificate in Motor Engineering.

**Course Fee**
Dependant on length/level of course

## B177
### TECHNOLOGICAL CERTIFICATE IN AUTOMOBILE ENGINEERING

**Objective**
Department of Education Elementary, Intermediate and Advanced Technological Certificates in Motor Car Engineering.

**Course Duration**
3 years of 30 weeks each year, 3 evenings (9 hours each week).

**Subjects**
Motor Car Engineering, Engineering Science and Mathematics, Automobile Electricity, Engineering Laboratory, Garage Organisation and Management. (Year three only)

**Entrance Requirements**
Leaving Certificate or employment in the motor industry

**Course Fee**

<table>
<thead>
<tr>
<th>Year</th>
<th>Fee</th>
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<tbody>
<tr>
<td>First and Second Year</td>
<td>£330</td>
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<tr>
<td>Third Year</td>
<td>£230</td>
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</tbody>
</table>

## B178
### MOTOR INDUSTRY MANAGEMENT CERTIFICATE

This three year course prepares students for membership examinations of the Institute of the Motor Industry.

**Subjects**

**Entrance Requirements**
Leaving Certificate or equivalent qualification. Exemptions to stages of the course may be available to suitably qualified candidates.

**Course Fee**

<table>
<thead>
<tr>
<th>Year</th>
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<tbody>
<tr>
<td>First and Second Year</td>
<td>£330</td>
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<tr>
<td>Third Year</td>
<td>£230</td>
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</tbody>
</table>
ROAD TRANSPORT STUDIES
This three year course prepares students for the membership examinations of the Institute of Road Transport Engineers and Certificate of Professional Competence of the Department of the Environment.
The Leaving Certificate or equivalent qualifications. Exemptions from stages of the course may be available to suitably qualified candidates.

Course fee
First and Second Years £230
Third Year £330

BOOK AND ARCHIVE RESTORATION
The purpose of this one year course is to train students in the repair and presentation of books, documents, etc. It is of particular value to the staffs of hand binderies, local record offices and those libraries concerned with the care of manuscripts and archives. Attendance is required on one evening per week.
Entry subject to interview.

Course fee £230

PRINT FINISHING
This one year course covers techniques and materials used in the production of books, magazines, and a wide range of miscellaneous work handled in the print finishing department. Stress is laid on hand and machine operations, e.g., wire stitching, sewing and folding, machine and hand feeding, gathering, gluing and mounting.
Employment in a relevant sector of the industry.

Course fee £230

INTRODUCTION TO PRINTING TECHNOLOGY
A one year course to prepare students for the Introduction to Printing Technology P.E.I./B.P.I.F. examinations 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.
Leaving Certificate or equivalent or acceptable industrial experience.

Course fee £230

COST ACCOUNTANCY FOR PRINTERS
A one year course designed to prepare students for the examinations of the British Printing Industries Federation.
Royal Society of Arts Certificate in Accounting and Office Procedure, or equivalent or acceptable industrial experience.

Course fee £230
B185  ESTIMATING FOR PRINTERS
A one year course designed to prepare students for the examination of the British Printing Industries Federation.

Entrance Qualifications
Leaving Certificate or equivalent qualification or Introduction to Printing Technology Examination of the British Printing Industries Federation or acceptable industrial experience.

Course fee  £230

B186  PAPER TECHNOLOGY
A two year course for personnel employed in Printing, Paper and Packaging Industries. Students are prepared for the examination of the Institute of Paper.

Entrance Qualifications
Leaving Certificate or equivalent or acceptable industrial experience.

Course fee  £230

B187  DESIGN FOR PRINT
This is a two year course to give students knowledge/skills in the following subject areas: Basic Design, Copy Preparation, Typographic Design, Printing Processes, Book and Magazine Layout, Advertising Design, Packaging Design, Graphic Design.

Entrance Qualifications
Leaving Certificate or Department of Education Senior Certificate in a graphic arts subject or equivalent qualification or acceptable industrial experience.

Course fee  First Year  £330
Second Year  £330

B188  INTRODUCTION TO MANAGEMENT (GRAPHIC INDUSTRIES)
A one year course to prepare students for the City & Guilds of London Institute Certificate in Introduction to Management (Graphic Industries).

Entrance Qualifications
Leaving Certificate or equivalent or acceptable industrial experience.

Course fee  £230

B189  PACKAGING PRINCIPLES AND PRACTICE
Students are prepared for the Institute of Packaging Diploma examination.

Entrance Qualifications
Leaving Certificate or equivalent and/or acceptable industrial experience.

Duration of Course  One year.

Course Content
Packaging materials, quality, machinery, distribution, marketing, printing, commercial aspects, legislation, environment, product types.

Course Fee  £230

B191  BOOKBINDING AND PRINT FINISHING RETRAINING
This one year evening course for personnel employed in the Printing Industry provides instruction in the latest techniques, and covers the whole range of materials and technology used in print finishing processes.

Course fee  £230

B192  LITHOGRAPHY AND PHOTO-LITHOGRAPHY RETRAINING
This course for personnel employed in the Printing Industry provides instruction in the latest techniques of lithographic plate making and press operation.

Course Duration  Ten weeks, six hours per week.

Course fee  £230
### DIT ACADEMIC CALENDAR - SESSION 1995/96

#### B193
**Advanced Lithographic Printing and Platemaking**

- **Aims of course**: To train students in advanced Lithographic Press Operation.
- **Entrance Requirements**: Full apprenticeship or employment in the industry.
- **Course Duration**: Ten weeks, six hours per week
- **Course content**: Lithographic Press Operations, setting of feeders, delivery, inking and damping units. Single and multiple units. Platemaking techniques: Impressions and planning, Inks and ink mixing, Process colour, Perfecting and C.P.C.
- **Course fee**: £230

#### B197
**Desktop Publishing**

- **Course Duration**: Ten weeks, six hours per week
- **Course fee**: £330

#### B198
**Advanced Desktop Publishing Course**

- **Aim of Course**: To train students in desk top publishing systems using Adobe Illustrator and Photoshop Software packages.
- **Entrance Qualifications**: Practical experience in industry or completion of other desk top publishing course.
- **Duration of Course**: Ten weeks, six hours per week
- **Course fee**: £330

#### B199
**Screen Printing**

- **Course fee**: £230
- **Entrance Requirements**: Employment in the industry.

### 1995

<table>
<thead>
<tr>
<th>Term 1</th>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>September</td>
<td>Friday 1st</td>
<td>Commencement of Session</td>
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<tr>
<td></td>
<td>Monday 4th</td>
<td>Commencement of part-time courses in Music and Drama</td>
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<td></td>
<td>Monday 11th</td>
<td>Interviews and enrolments for part-time and evening courses commence</td>
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<tr>
<td></td>
<td>Monday 18th</td>
<td>Wholetime courses commence</td>
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<td></td>
<td>Monday 25th</td>
<td>Part-time day and evening courses commence</td>
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<tr>
<td></td>
<td>Saturday 9th</td>
<td>Final class meetings for part-time courses in Music and Drama</td>
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<td></td>
<td>Friday 15th</td>
<td>Final class meeting of first term</td>
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</tbody>
</table>

### 1996

<table>
<thead>
<tr>
<th>Term 2</th>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>January</td>
<td>Monday 8th</td>
<td>Classes resume</td>
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<tr>
<td></td>
<td>Friday 29th</td>
<td>Final class meetings of second term</td>
</tr>
<tr>
<td>April</td>
<td>Monday 15th</td>
<td>Classes resume</td>
</tr>
</tbody>
</table>

#### Term 3

- **Date**: May
- **Event**: Final class meetings of third term
- **Date**: Friday 3rd
- **Event**: Final class meetings of third term
- **Date**: Monday 13th
- **Event**: Summer examinations commence

- **Classes are not scheduled on public holidays during the session** (viz. 30 October; 18 March; 6 May; 3 June)
- **Classes are not scheduled from Monday December 18th to Friday January 5th inclusive or from Monday April 1st to Friday April 13th inclusive.**
The information contained in this booklet is intended as a guide for persons seeking admission to the Institute and is not intended as an element of a contract between the Institute and the student or his/her employer or sponsor. The Institute reserves the right to change or modify any of the courses or the information without prior notice. Applicants are advised to check the details of any course before enrolling for it.