

1956

## Innealtoireacta: Buneolaire 1956-57

City of Dublin Vocational Education Committee

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COISDE SHAIM-OITHEDÁIS CATAIR ÁTA CLIAĀ

AN ROINN  
Innealtóireadta

CEÁRO-SCOILEANNA  
SRÁIO BÓLTŪM

★

RANĜANNA LAE AĜUS OÍCE

★

Buneolaire

1956-57

## CALENDAR—SESSION 1956-'57

<b>1956—SEPT. 3 MONDAY</b>	- Higher Technological Courses; Whole-time Engineering Courses; Trade Apprentice Part-time Day Courses open for enrolment and Mechanical Engineering Sandwich Course resumes work.
<b>10 MONDAY</b>	- Trade Apprentice Part-time Day Courses commence work. Evening Courses open for enrolment.
<b>17 MONDAY</b>	- Higher Technological Courses and Evening Classes commence work.
<b>OCT. 8 MONDAY</b>	- Whole-time Engineering Courses commence work.
<b>DEC. 21 FRIDAY</b>	- Final Class meetings before Christmas Vacation.
<b>1957—JAN. 7 MONDAY</b>	- All Classes resume work after Christmas Vacation.
<b>MAR. 17 SUNDAY</b>	- <i>St. Patrick's Day.</i>
<b>APR. 16 TUESDAY</b>	- Final Class meetings before Easter Vacation. Final meetings of Evening Classes.
<b>29 MONDAY</b>	Day Classes resume work after Easter Vacation.
<b>MAY 25 SATURDAY</b>	- Final Class meetings of Whole-time Engineering Courses.
<b>JUN. 10 MONDAY</b>	- <i>Whit Monday.</i> School closed.
<b>28 FRIDAY</b>	- Summer Term closes, except where otherwise arranged.

School closed on all Bank Holidays not specified in above Calendar.

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## CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE

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CHARLES WARREN, Society of Irish Motor Traders.

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ROBERT J. PORTER, Messrs. R. W. Archer & Co., Ltd.

PATRICK FLANAGAN, Messrs. McCairns Motors Ltd.

JOHN KEENEY, L.S.E. Motors Ltd.

#### AERONAUTICAL ENGINEERING

P. DELANEY, Aer Lingus Teo., Dublin Airport.

R. W. O'SULLIVAN, Chief Aero. Officer, Dept. Industry and  
Commerce.

COMDT. J. TEAGUE, Army Air Corps, Baldonnel.

## CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE

### GENERAL REGULATIONS for the Schools and Classes operating under the Authority of the Committee.

#### 1. ADMISSION AND ENROLMENT

(a) In general, applicants for admission to the Classes and Courses must be not less than 14 years of age, but admission to a whole-time Day Course may be granted where the applicant is over 13 years of age and has been enrolled for at least one year in the Sixth Standard of a Primary School. This Regulation does not apply to the School of Music or Colaiste Muire, Cathal Brugha Street.

(b) The Committee, in accordance with the means and facilities at its disposal, has provided classes for the sole purpose of supplementing the practical trade training of persons actually employed at and engaged in the various operations of the trade and whose employment as such is accepted by the recognised Unions of the trades concerned.

(c) In determining whether an applicant for admission to one of these practical trade classes complies with the above conditions the Committee is guided, where necessary, by the evidence supplied by the Masters' Associations and the official Trade Unions of the trade concerned.

(d) Admission to a particular class or course is subject to the published regulations relative to that class or course.

(e) One month after the opening date of classes or courses students will be permitted to enrol only with the special permission of the School Authority.

(f) Pupils in attendance at Primary and Secondary Schools are not eligible for enrolment except by special permission of the School Authority.

(g) The educational fitness of a student to enrol in a particular course may be decided by an examination or other means considered necessary.

(h) A student is not entitled to enrol in a class or course which the School Authority decides is too advanced for his/her standard of knowledge.

(i) Enrolment procedure:—

(i) Intending students must enter on the Enrolment Form supplied all the information required by the School Authority.



- (ii) The classes or courses to be taken are decided in interview with a member of the School Staff.
- (iii) The appropriate fee is then paid to an officer of the Committee and a receipt issued therefor. A student who pays a fee should insist that he/she receive an official receipt for the amount of the fee paid.
- (iv) The appropriate class ticket/tickets is/are then issued to the student.
- (j) (i) No student may attend a class until he/she has received a class ticket.
- (ii) On first attendance at each class the student must tender to the teacher in charge his/her appropriate class ticket., together with the receipt for fee paid.
- (k) Students will be enrolled during the period and at the times stated in the Committee's publications.
- (l) The School Authority is authorised to refuse an enrolment, pending a decision thereon by the Committee.

## 2. FEES

(a) The fees payable for the several classes and courses included in the Scheme of Instruction are stated in the publications of the Committee, and must be paid in full on enrolment unless otherwise stated.

(b) Where a course includes subjects of different stages, the total fee will be computed on the basis that the initial fee is that of the highest stage.

(c) For enrolments in subjects ancillary to the original enrolment, in the same or another School or Department, the additional fee will be computed on the basis that all the classes have been selected on first enrolment. Where the additional subjects are deemed not to be ancillary, the fee payable will be as for a separate enrolment.

(d) The School Authority is authorised to decide if the additional enrolment is ancillary to the original enrolment.

(e) For fee purposes, Irish and/or Physical training will be regarded as additional subjects to any class or course.

(f) Fees will not be refunded except where a class does not form.

(g) Cheques should be crossed and made payable to the City of Dublin Vocational Education Committee.

## 3. TRANSFERS

An enrolment is not transferable from one student to another. Transfer from one class to another, from one School to another, from Day Classes to Evening Classes, or from Evening Classes to Day Classes, with allowance for the fees paid, will be permitted only for a satisfactory reason and by special permission of the School Authority.

## 4. PRODUCTION OF ORIGINAL RECEIPT

Where applications are made for additional enrolments, or for transfers, the original receipt must be produced.

## 5. FORMATION AND CONTINUANCE OF CLASSES

The Committee reserves the right at any time to add or delete classes or courses to or from its Scheme of Instruction; to extend the period of a class; and to close a class, or to alter the day or times of a class meeting.

## 6. DISCIPLINE

The School Authority may suspend any student for breach of rules and regulations; absence from classes; irregular or unpunctual attendance; disorderly conduct in the School or within the School precincts; disobedience to a member of the staff; or for any other reason deemed sufficient. The Committee reserves the right to confirm such suspension and to cancel the enrolment without refund of fee. Where immediate action is required because of indiscipline on the part of the students, any member of the School Staff has authority to take appropriate measures, pending report to the School Authority.

## 7. SMOKING

Smoking is not permitted in the Schools.

## 8. INJURY TO STUDENTS

The Committee does not accept responsibility for injury to students resulting from careless conduct or neglect or disregard of regulations.

## 9. STUDENT PROPERTY

The Committee does not accept any responsibility for loss of or damage to any student property—bicycles, hats, coats, books, etc.



## 10. SCHOOL PROPERTY

Where School property is damaged wilfully or through careless conduct on the part of students, such students (or their parents or guardians) may be required, on the order of the Committee, to pay for such repairs or replacements as may be necessary.

## 11. CHANGE OF ADDRESS

Students should notify the School Authority of any change of address.

## 12. BOOKS, STATIONERY, EQUIPMENT, DRESS

Students are expected to provide themselves with such books, stationery, equipment and dress as may be required.

## 13. INFECTIOUS AND NOTIFIABLE DISEASES

The head of the household must inform the School Authority immediately of any infectious or notifiable disease which may occur in the house in which a student is residing. Such a student must not resume attendance until permitted to do so by a medical officer.

## 14. EXAMINATIONS

Permission to sit for Scholarship, Sessional or other Examinations held under the authority of the Committee, will be governed by the conditions relevant to the examinations.

## 15. SCHOOL AUTHORITY

The term "School Authority," as used in these Regulations, indicates the Chief Executive Officer, or an officer delegated to act on his behalf.

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*The above Regulations have been adopted by Resolution of the Vocational Education Committee for the City of Dublin and approved by the Minister for Education.*

## STAFF

### 1. MATHEMATICS; STRENGTH OF MATERIALS; APPLIED MECHANICS, ETC.:

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### 3. HEAT ENGINES; APPLIED THERMODYNAMICS:

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	J. McCABE, B.E.

### 4. ELECTRICITY; ELECTROTECHNOLOGY; AUTOMOBILE ELECTRICITY:

J. D. BARRY, M.SC., B.E.	J. BRYAN.
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G. L. LATCHFORD, B.E., B.SC.	M. O'DONNELL, B.E.

### 5. MECHANICAL ENGINEERING; MACHINE DESIGN; THEORY OF MACHINES:

J. D. BARRY, M.SC., B.E., M.I.MECH.E., M.I.C.E.I.	G. L. LATCHFORD, B.E., B.SC.
J. C. FITZPATRICK, WH.EX., M.I.MECH.E., M.I.C.E.I.	D. MCCARTHY, PH.D.
	H. J. TAYLOR, H.N.C.
	M. O'DONNELL, B.E.







## GENERAL DESCRIPTION OF THE ACTIVITIES OF THE ENGINEERING DEPARTMENT

The work of the Department comprises both Day and Evening Courses and is carried out under two main sub-divisions:—

- (i) Engineering Technology; (ii) Engineering Trades.

### DAY ACTIVITIES

The Day School activities comprise:—

- (a) Whole-time Courses in Engineering.  
(b) "Sandwich" Courses in Engineering.  
(c) Part-time Courses in Engineering.  
(d) Part-time Apprentice Courses.

### EVENING ACTIVITIES

The Evening School activities comprise:—

- (a) Technological Courses in Mechanical Engineering; Aeronautical Engineering; Marine Engineering; Civil Engineering; Heating, Ventilating and Air Conditioning; Structural Engineering; Motor Car Engineering; Welding Technology.  
(b) Courses in Aeronautical Engineering for Maintenance Engineers' Licences; Courses in Diesel Maintenance; Motor Car Engineering.  
(c) Trade Courses in Fitting and Turning; Garage Practice; Metal Plate Work; Brassfinishing; Patternmaking; Boilermaking; Smithwork; Art Ironwork; Oxy-Acetylene and Electric Welding; Foundry Work; Brass Moulding.

### EXAMINATIONS

The Courses are designed to prepare students for the following External Examinations:—

#### 1. Department of Education Examinations

- (a) i. Elementary, Intermediate and Advanced Technological Certificate Examinations in Mechanical Engineering.  
ii. Higher Technological Certificate in Mechanical Engineering.  
(b) Junior and Senior Trade Certificate Examinations in Fitters' Work; Turners' Work; Metal Plate Work; Brassfinishing; Motor Car Engineering; Boilermakers' Work.

#### 2. Examinations of Professional Institutions

The Institution of Mechanical Engineers; the Institute of Marine Engineers; the Institution of Civil Engineers of Ireland; the Institution of Heating and Ventilating Engineers; the Institution of Civil Engineers; the Royal Aeronautical Society; the Institution of Municipal Engineers; the Institution of Structural Engineers; the Institute of the Motor Industry, etc.

#### 3. Board of Trade Examination for the Certification of Marine Engineers

#### 4. City and Guilds of London Institute

#### 5. University of London

#### 6. Licence Examinations in Aeronautical Engineering of the Dept. of Industry and Commerce.

Further particulars regarding the above Examinations may be obtained from the Head of the Department.

## CONDITIONS REGULATING THE ADMISSION OF STUDENTS TO CLASSES AND COURSES

### Practical Workshop Classes in Trade Subjects

These classes are provided for the sole purpose of supplementing the practical trade training of persons actually employed at and engaged in the various operations of the trade. The Committee realise that it is impossible for a person to learn a trade solely by attendance at these classes, and are further of the opinion that the admission to the classes of persons not actually engaged in the trades would be not only of little use to such persons but would prejudicially affect the instruction of those for whom the classes have been organised. Accordingly, the Committee reserve the right to restrict enrolment in the trade practical classes to those persons who are actually employed in the several processes and operations of the trade.

In the Engineering Department the classes to which this regulation refers in the Session 1956-'57 will be:—

- (i) Evening Trade Classes in Fitting and Turning; Garage Practice; Metal Plate Work; Brassfinishing; Patternmaking; Boilermaking; Smithwork; Art Iron Work; Oxy-Acetylene and Electric Welding; Foundry Work—Iron Moulding; Brass Moulding.  
(ii) Part-time Day Apprentice Workshop Classes in Fitting and Turning; Garage Practice; Oxy-Acetylene and Electric Welding.

For admission to the trade classes as named, proof of actual employment in the several processes and operations of the trade will be certificates to that effect from the Masters' Associations and/or the official Trades Unions of the trade concerned.

### DAY AND EVENING TECHNOLOGICAL COURSES

Only such students will be admitted as have attained a standard of general education that will enable them to follow all the subjects of the Course with profit. In the absence of satisfactory evidence on this point, intending students may be required to pass a qualifying examination as a condition of admission.

*The above Regulations have been adopted by Resolution of the Vocational Education Committee for the City of Dublin and approved by the Minister for Education.*



## DESCRIPTION OF COURSES

### TECHNOLOGICAL COURSES

#### (i) Whole-time Course in Engineering

This Course is designed to prepare students for the examinations of the Professional Engineering Institutions. The Course extends over four years.

Applicants for the Course must have passed the Common Preliminary Examination of the Professional Engineering Institutions or an examination exempting therefrom.

Further information concerning the Course may be obtained by consulting the Head of the Engineering Department.

#### (ii) Part-time Engineering (Higher Technological)

##### Day Course A

This Course is designed to meet the requirements of the Syllabus of the Associate Membership Examination of the Institution of Mechanical Engineers.

It is a four-year Course and lectures are given on two days per week from 9.30 a.m. to 12.30 p.m., and from 2.0 p.m. to 5.0 p.m. In addition, the students attend at suitable evening school classes in those subjects in which they may require extra tuition. The lecture work is modelled directly on the requirements of the examination syllabuses and is supplemented by practical work in the mechanical and engine testing laboratories. Students must carry out all homework and drawing exercises which are set by the lecturers.

Permission to sit for the examination must be obtained from the Council of the Institution following the sending in of Proposals for Election.

On passing the requisite examinations the students may be elected as Graduate Members provided that they fulfil the following requirements of the Institution:—

- (1) That they are between the ages of 21 and 30 years; and
- (2) That they satisfy the Council that they have received or are receiving such regular training as Mechanical Engineers as would in due course fit them for employment as Mechanical Engineers.

For enrolment in this Course students must be at least 18 years of age and must possess such a standard of general education as would, in the opinion of the Head of the Department, enable them to follow the instruction given.

The students must provide themselves with the specified textbooks, notebooks and drawing instruments.

#### (iii) Part-time Mechanical Engineering Technological Day Course B

Apprentices successful at the Department of Education elementary stage examinations in Mechanical Engineering and Mathematics at the end of the second year are promoted to this course and are prepared for the Intermediate and Advanced Stage Examinations of the Department of Education.

#### (iv) Civil Engineering

This Course is designed to meet the requirements of the Syllabus of the Associate Membership Examination of the Civil Engineering Institutions.

Lectures are given on two days per week, from 9.30 a.m. to 12.30 p.m., and from 2.0 p.m. to 5.0 p.m., for the Section A Examination. The students attend evening classes for the professional subjects of Section B Examination. The lecture work is modelled directly on the requirements of the Institution Examination Syllabuses and is supplemented by practical work in the laboratories. Students must carry out all homework and drawing exercises set by the lecturers.

Permission to sit for the examination must be obtained from the Council of the Institution.

For enrolment in this Course students must be at least 18 years of age and must possess such a standard of general education as would, in the opinion of the Head of Department, enable them to follow the instruction given.

#### (v) Heating, Ventilating and Air Conditioning

This Course is designed to meet the requirements of the Syllabus of the Associate Membership Examination of the Institution of Heating and Ventilating Engineers.

Lectures are given on two days per week, from 9.30 a.m. to 12.30 p.m., and from 2.0 p.m. to 5.0 p.m. for the Section A Examination. The students attend evening classes for the professional subjects of Section B Examination. The lecture work is modelled directly



on the requirements of the Institution Examination Syllabuses and is supplemented by practical work in the laboratories. Students must carry out all homework and drawing exercises set by the lecturers.

Permission to sit for the examination must be obtained from the Council of the Institution.

For enrolment in this Course students must be at least 18 years of age and must possess such a standard of general education as would, in the opinion of the Head of Department, enable them to follow the instruction given.

**(vi) The Evening Course in Mechanical Engineering Technology, Course A**, is a six-year Course designed for students in engineering employment who wish to qualify in the technological branches of their work. A good standard of general education is required on entrance. Apprentices to the engineering trades who enjoy full opportunity for learning all branches of their trade in the works and who have the required standard of general education are advised to choose the technological in preference to the trade course.

The course prepares students for the Higher Technological Certificate Examinations in Mechanical Engineering of the Department of Education.

**(vii) The Evening Course in Mechanical Engineering, Course B**, prepares students for the examinations of the Institution of Mechanical Engineers.

#### **(viii) Heating, Ventilating and Air Conditioning**

This is a six-year evening Course which prepares students for the Associate Membership Examination of the Institution of Heating and Ventilating Engineers.

**(ix) The Marine Engineer's Certificate Course** is a four-year Course designed for students who are employed in engineering works and who intend to go to sea as marine engineers. The course covers the syllabus of Part A of the Certificate of Competency Examination (2nd Class) of the Board of Trade, and examinations giving exemption therefrom. Before going to sea a student is required to have completed at least four years of approved apprenticeship, and it is a distinct advantage to have already passed Part A of the Examination. The Institute is recognised by the Board of Trade for exemption purposes and students who have attended courses satisfactorily will be entitled to claim partial exemption from the four years of approved apprenticeship specified. Further particulars may be obtained from the Head of the Department or by consulting the Board of Trade Regulations.

#### **(x) The Evening Course in Civil Engineering and Structural Engineering**

This is a five-year Evening Course which prepares students for the Associate Membership Examinations of the Civil Engineering Institutions and the Institution of Structural Engineers.

#### **(xi) Aero-Mechanics Licence Courses**

These Courses prepare ground engineers for the internal examinations of this Institute which exempt from the Department of Industry and Commerce examinations for Maintenance Engineers' Licences, Categories A and C.

#### **(xii) Aeronautical Engineering**

This Course prepares students for the Associate Fellowship examinations of the Royal Aeronautical Society.

#### **(xiii) Marine Engineering**

This course prepares students for the Associate Membership Examinations of the Institute of Marine Engineers.

#### **(xiv) Motor Car Engineering Technology**

This is a five-year course which prepares students for the Technological Examinations of the Department of Education and the Associate Membership Examinations of the Institute of the Motor Industry.

#### **(xv) Mechanical Engineering "Sandwich" Course**

This Course is designed to prepare mechanical engineering apprentices for the Technological and Trade Examinations of the Department of Education.

#### **(xvi) Welding Technology**

A series of twelve lectures on Welding Technology organised for Engineering personnel in Industry.

## **2. TRADE COURSES**

These courses are designed for apprentices and young journeymen engaged in the several 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 and Guilds of London Institute, these examinations being conducted in the School at the close of the evening session.



EVENING COURSES leading to the Department of Education Examinations are provided in the following trades: Fitters' and Turners' Work; Metalplate Work; Brassfinishing; Motor Car Engineering; Boilermaking.

Evening Courses are also provided in the following trades: Patternmaking; Foundry Work; Smithwork and Art Ironwork; Oxy-acetylene and Electric Welding; Brass Moulding; Diesel Maintenance; Structural Steelwork.

**Part-time Day Apprentice Courses.** By agreement with certain employers, apprentices are allowed time off to attend this course on one day (6 hours) per week. It is a two-year course which aims at the attainment of the standard of the Elementary Technological Certificate of the Department of Education.

**Part-time Day Courses: Fitters and Turners, and Motor Mechanics (Scheme A).** By agreement with certain employers, apprentices are allowed time off to attend these courses on one day (6 hours) per week. The course aims at the attainment of the standard of the Junior and Senior Trade Certificates of the Department of Education.

**Part-time Day Courses: Apprentice Motor Mechanics (Scheme B).** By agreement with the Society of Irish Motor Traders, the apprentices of all city members of the Society are allowed off to attend this course on one half-day per week. The course is a five-year course which aims at the standard of attainment of the Junior and Senior Trade Certificates in Motor Car Engineering of the Department of Education.

**Welding Course for Boilermaking Apprentices:** This is a special course in Oxy-Acetylene and Electric Welding for Boilermaking Apprentices who are released from employment to attend the Institute for three hours' instruction per week.

### 3. PHYSICAL TRAINING

Evening Courses in Physical Training for men are provided.

#### FEES (PER SESSION)

Course	£	s.	d.
1. WHOLE-TIME COURSE IN ENGINEERING ...	15	0	0
2. ENGINEERING TECHNOLOGICAL PART-TIME DAY COURSES ...	3	0	0
3. ENGINEERING "SANDWICH" COURSE ...	3	0	0
4. PART-TIME DAY APPRENTICE COURSES: Mechanical Engineering—all trades ...	2	0	0
5. EVENING COURSES AND CLASSES: All Courses or Single Subjects ...	1	10	0
Additional Subjects ...	0	7	6

## SCHOLARSHIPS AND PRIZES

The City of Dublin Vocational Education Committee awards scholarships annually in the Whole-time Course in Engineering, based on student's progress in the first, second and third years of the Course. Scholarships consist of free admission to the subsequent year of the Course.

The Dublin Mechanics' Institute Scholarships are provided for by the Dublin Mechanics' Institute Residuary Fund. One scholarship is awarded annually to apprentices between the ages of 16 and 19 years of age who have been in attendance at a Technical Course during the previous session and made a specified minimum attendance. The Scholarships are tenable for three years and are valued about £3 each per year.

The Department of Education offers the following medals and prizes annually in connection with their examinations:—

- (a) *Technological Certificate Examinations.* A prize of £1 in each subject of the Elementary and Intermediate Stages. A silver medal, a first prize of £2 and a second prize of £1 in each subject of the Advanced Stage.
- (b) *Trade Certificate Examinations.* A prize of £1 in each of the practical and written examinations of the Junior Stage. A bronze medal and a prize of £2 in each of the practical and a prize of £1 in each of the written examinations of the Senior Stage.

The William Rooney Memorial Prizes are provided for by a trust fund established in memory of William Rooney (Fear na Muinntir), the Irish poet and patriot. A sum of approximately £12 is available annually for awards to students who are apprentices to the Mechanical Engineering and Building trades. The award alternates in successive years between students of the Engineering and Building trade groups, but is not available to holders of scholarships in the Day Apprentice Courses. A competent knowledge of Irish is an essential requirement, in addition to regular attendance and proficiency.

The Union of Sheet Metalworkers' Prize, value £10 10s., is awarded annually to apprentices of the Sheet Metalwork Classes, mainly on the results of the Trade Certificate Examinations of the Department of Education.



## EQUIPMENT

The equipment of the School can be briefly described under seven heads: (1) Laboratories; (2) Drawing Offices and Art Room; (3) Workshops; (4) Classrooms and Lecture Rooms; (5) Gymnasium; (6) Surveying and Levelling Equipment; (7) Models and Specimens; (8) Visual Aids.

### Laboratories

The Laboratories, covering a floor area of 7,500 sq. feet, are five in number:—

**PHYSICS AND CHEMISTRY LABORATORY** with Preparation Rooms and Stores equipped with the usual apparatus required for general courses in Science.

**APPLIED MECHANICS AND MATERIALS TESTING LABORATORY**, well equipped with apparatus for demonstrating the laws of statics and dynamics and with machines for testing engineering and building materials in compression, tension, shear, bending and torsion, and for measuring deflections and extensions under load. The equipment includes an Avery vertical single-lever testing machine capable of applying tension or compression up to 5 tons; a verticle-screw testing machine for deflection and cross-breaking tests; a torsion testing machine; a cement testing machine of the compound lever type; a beam testing apparatus; an Izod testing machine; a Searle extensometer and several wire extensometers and compression and tension testing machines for springs; strut apparatus; Fletcher's trolley; experimental flywheels; gyroscope; balancing machine; whirling speed apparatus; fatigue testing machine; various apparatus for determining the moduli of elasticity; a vernier microscope; an oscillograph and recording camera; polariscope; strain gauge measuring equipment, etc.

**APPLIED HEAT LABORATORY** with equipment for experimental work on heat and heat engines, including Jünker and bomb calorimeters; flashpoint and viscosity apparatus; Orsat apparatus; pyrometer (Whipple's heat recorder); equipment for study of gas laws (including temperature-pressure apparatus for high pressures); steam pressure gauges; Peugeot engine and the Davidson apparatus demonstrating the principles of domestic hot-water installations, etc. Several engine and boiler models including the principal steam engine valve mechanisms, etc.

**AN ELECTRICITY LABORATORY** fitted with apparatus for experimental work on magnetism, static electricity, D.C. and A.C., including ammeters; voltmeters; galvanometers, meter bridges; P.O. boxes; a demountable transformer; various test instruments; 1½ k.w. Canning motor generator set feeding through bus-bars to work-benches. Special equipment for use in connection with courses in automobile electricity include Newton test bench for 6v. and 12v. automobile equipment; Davenset; two-circuit metal

rectifier battery charger (2v.-60v., 3a. and 10a. outputs). Varied selection of motors, dynamos and associated electrical apparatus, 12kw. motor-generator, etc.

**AN ENGINE TESTING LABORATORY** fully equipped for experimental work on petrol, oil, gas and steam engines. The plant includes: A 4-cylinder Wolseley petrol engine fitted with Hopkinson indicator for photographing the indicator diagrams; a water-cooled Prony brake; calorimeters for measuring heat loss in jacket water and exhaust gases and measuring tank for finding petrol consumption. A 50 B.H.P. Diesel oil engine by Mirrlees, Bickerton and Day fitted with motor-driven compressor; Froude dynamometer; indicator; Orsat apparatus, etc., for engine and heat balance tests. A 28 B.H.P. gas engine by Crossley Bros. fitted with the usual apparatus for making B.H.P. and I.H.P. tests, etc. Three experimental steam engines with apparatus for making comprehensive tests. Experimental apparatus for the study of the properties of steam, including throttling calorimeter; injectors; steam traps; apparatus for illustrating relative conductivity of lagging materials; a Strobflash for the examination and analysis of running machinery; steam turbine, etc.

The Institute also possesses an Armstrong Siddeley Cheetah X aircraft engine and a 1,100 h.p. Pratt & Whitney aircraft engine, etc., for use in classes in Aero Engineering.

**NOTE:**—Senior students specialising in advanced experimental work must obtain permission of the Head of the Department before proceeding with engineering investigations.

### Drawing Offices and Art Room

There are six well-equipped and well-lighted Drawing Offices and an Art Room covering in the aggregate a floor area of 7,000 sq. feet. The Art Room is provided with a good selection of models and plaster casts, while the Drawing Offices are stocked with a large number of engineering models for machine construction and design purposes.

### Workshops

Trade workshops, having an aggregate floor area of over 30,000 sq. feet, are individually equipped for each of the trades covered by the activities of the Institute.

**THE FITTING AND TURNING WORKSHOPS** are well provided with modern machine tools, including fifteen power-driven screw-cutting surfacing lathes, eight drilling machines, one vertical and one horizontal universal milling machine, a 3-ft. planer, four shaping machines, universal grinding machines, power saws and grinders for twist drills and lathe tools. There are six smiths' hearths.







## WHOLE-TIME DAY COURSE IN ENGINEERING

### FIRST YEAR

No. of Course	Subject	Hours per Week
1	Mathematics ... ..	3
	Engineering, Drawing and Graphics ... ..	5
	Engineering Economics ... ..	1
	Applied Mechanics ... ..	4
	Applied Heat ... ..	3
	Electricity ... ..	3
	Experimental Physics ... ..	3
	Chemistry ... ..	3
	Engineering Theory ... ..	1
	Workshop Technology ... ..	1
	Philosophy ... ..	1
	Practical Engineering ... ..	3
	(In addition Students attend Evening Workshop Classes for periods as directed).	

### SECOND YEAR

2	Mathematics ... ..	3
	Engineering, Drawing and Graphics ... ..	5
	Applied Mechanics ... ..	4
	Applied Heat and Heat Engines ... ..	4
	Principles of Electricity ... ..	4
	Physics ... ..	2
	Chemistry ... ..	3
	Engineering Theory ... ..	1
	Workshop Technology ... ..	1
	Practical Engineering ... ..	3
	Engineering Economics ... ..	1
	Philosophy ... ..	1

### THIRD YEAR

3	Mathematics ... ..	3
	Theory of Machines ... ..	3
	Theory of Structures and Structural Design ... ..	4
	Properties and Strength of Materials ... ..	3
	Machine Design ... ..	4
	Applied Thermodynamics ... ..	5
	Electrotechnology ... ..	4
	Mechanics of Fluids ... ..	2
	Metrology and Machine Tools ... ..	1
	Philosophy ... ..	1

## Whole-time Day Course in Engineering (continued)

### FOURTH YEAR

4	Applied Mathematics ... ..	2
	Theory of Machines ... ..	4
	Structures ... ..	4
	Properties and Strength of Materials ... ..	3
	Machine Design ... ..	4
	Applied Thermodynamics ... ..	5
	Electrical Engineering ... ..	4
	Mechanics of Fluids ... ..	2
	Metrology and Machine Tools ... ..	1
	Philosophy ... ..	1



# PART-TIME MECHANICAL ENGINEERING

## Technological Course A

### FIRST YEAR

Course No.	Day	Time	Subject	Room
6	Monday	9.30-11.00	Applied Mechanics ... ..	A 5
		11.00-12.30	Applied Mechanics ... ..	A 5
		2.00- 3.30	Heat, Light and Sound ... ..	A 11
		3.30- 5.00	Heat, Light and Sound ... ..	A 11
	Wednesday	9.30-11.00	Principles of Electricity ... ..	A 6
		11.00-12.30	Principles of Electricity ... ..	A 6
		2.00- 3.30	Mathematics ... ..	B 10
		3.30- 5.00	Mathematics ... ..	B 10
		7.30- 9.30	Engineering Economics ... ..	B 8
	Thursday	7.30- 9.30	Machine Drawing ... ..	B 11

### SECOND YEAR

7	Monday	9.30-11.00	Principles of Electricity ... ..	A 7
		11.00-12.30	Principles of Electricity ... ..	A 7
		2.00-3.30	Heat, Light and Sound ... ..	C 6
		3.30- 5.00	Heat, Light and Sound ... ..	C 6
		7.30- 9.30	Machine Drawing & Construction ... ..	B 11
		Wednesday	7.30- 9.30	Engineering Economics ... ..
	Thursday	9.30-11.00	Mathematics ... ..	B 28
		11.00-12.30	Mathematics ... ..	B 28
		2.00- 3.30	Applied Mechanics ... ..	A 5
		3.30- 5.00	Applied Mechanics ... ..	A 5

### THIRD YEAR

8	Monday	8.30-10.00	Mathematics ... ..	C 7
	Tuesday	9.30-11.00	Theory of Machines ... ..	C 6
		11.00-12.30	Theory of Machines ... ..	C 6
		2.00- 3.30	Internal Combustion Engines ... ..	C 6
		3.30- 5.00	Steam ... ..	C 6
		7.00-10.00	Machine Construction and Design ... ..	B 10
	Thursday	9.30-11.00	Strength of Materials ... ..	C 6
		11.00-12.30	Strength of Materials ... ..	C 6
		2.00- 3.30	Internal Combustion Engines ... ..	C 6
		3.30- 5.00	Steam ... ..	C 6

### FOURTH YEAR

Course No.	Day	Time	Subject	Room
9	Monday	8.30-10.00	Mathematics ... ..	C 7
	Tuesday	9.30-11.00	Theory of Machines ... ..	C 6
		11.00-12.30	Theory of Machines ... ..	C 6
		2.00- 3.30	Internal Combustion Engines ... ..	C 6
		3.30- 5.00	Steam ... ..	C 6
	Thursday	9.30-11.00	Strength of Materials ... ..	C 6
		11.00-12.30	Strength of Materials ... ..	C 6
		2.00- 3.30	Steam ... ..	C 6
		3.30- 5.00	Internal Combustion Engines ... ..	C 6
		7.30- 9.30	Industrial Administrations ... ..	B 8
	Friday	7.00-10.00	Machine Design ... ..	B 10

## HEATING, VENTILATING AND AIR CONDITIONING

### PART I—FIRST YEAR

6	Monday	9.30-11.00	Applied Mechanics ... ..	A 5
		11.00-12.30	Applied Mechanics ... ..	A 5
		2.00- 3.30	Heat, Light and Sound ... ..	A 11
		3.30- 5.00	Heat, Light and Sound ... ..	A 11
	Wednesday	9.30-11.00	Principles of Electricity ... ..	A 6
		11.00-12.30	Principles of Electricity ... ..	A 6
		2.00- 3.30	Mathematics ... ..	B 10
		3.30- 5.00	Mathematics ... ..	B 10
		7.30- 9.30	Engineering Economics ... ..	B 8
	Thursday	7.30- 9.30	Machine Drawing ... ..	B 11

### PART I—SECOND YEAR

7	Monday	9.30-11.00	Principles of Electricity ... ..	A 7
		11.00-12.30	Principles of Electricity ... ..	A 7
		2.00- 3.30	Heat, Light and Sound ... ..	C 6
		3.30- 5.00	Heat, Light and Sound ... ..	C 6
		7.30- 9.30	Machine Drawing and Construction ... ..	B 11
		Wednesday	7.30- 9.30	Engineering Economics ... ..
	Thursday	9.30-11.00	Mathematics ... ..	B 28
		11.00-12.30	Mathematics ... ..	B 28
		2.00- 3.30	Applied Mechanics ... ..	A 5
		3.30- 5.00	Applied Mechanics ... ..	A 5

### PART II—THIRD AND FOURTH YEARS

53	—	7.30- 9.30	Heating and Hot Water Service ... ..	—
54	—	7.30- 9.30	Ventilation and Air Conditioning ... ..	—
55	Friday	7.30- 9.30	Mechanics of Fluids ... ..	A 7
56	—	7.30- 9.30	Boiler House Work ... ..	—



# CIVIL ENGINEERING

## PART I—FIRST YEAR

Course No.	Day	Time	Subject	Room
6	Monday	9.30-11.00	Applied Mechanics ... ..	A 5
		11.00-12.30	Applied Mechanics ... ..	A 5
		2.00- 3.30	Heat, Light and Sound ... ..	A 11
		3.30- 5.00	Heat, Light and Sound ... ..	A 11
	Wednesday	9.30-11.00	Principles of Electricity ... ..	A 6
		11.00-12.30	Principles of Electricity ... ..	A 6
		2.00- 3.30	Mathematics ... ..	B 10
		3.30- 5.00	Mathematics ... ..	B 10
		7.30- 9.30	Engineering Economics ... ..	B 8
	Thursday	7.30- 9.30	Machine Drawing ... ..	B 11

## PART I—SECOND YEAR

Course No.	Day	Time	Subject	Room
7	Monday	9.30-11.00	Principles of Electricity ... ..	A 7
		11.00-12.30	Principles of Electricity ... ..	A 7
		2.00- 3.30	Heat, Light and Sound ... ..	C 6
		3.30- 5.00	Heat, Light and Sound ... ..	C 6
		7.30- 9.30	Machine Drawing and Construction ... ..	B 11
	Wednesday	7.30- 9.30	Engineering Economics ... ..	B 8
	Thursday	9.30-11.00	Mathematics ... ..	B 28
		11.00-12.30	Mathematics ... ..	B 28
		2.00- 3.30	Applied Mechanics ... ..	A 5
		3.30- 5.00	Applied Mechanics ... ..	A 5

## PART II—THIRD YEAR

Course No.	Day	Time	Subject	Room
48	Monday	7.00-10.00	Structural Engineering ... ..	D 15
46	Wednesday	7.00- 8.30	Strength of Materials ... ..	A 7
47	Wednesday	8.30-10.00	Theory of Structures ... ..	A 7
15	Friday	7.00- 8.30	Applied Mechanics ... ..	A 5

## PART II—FOURTH YEAR

Course No.	Day	Time	Subject	Room
51	Monday	7.00-10.00	Surveying and Levelling ... ..	B 29
49	Tuesday	7.00-10.00	Municipal Engineering ... ..	A 7
52	Thursday	8.30-10.00	Engineering Drawing, Specification and Quantities ... ..	A 5
50	Friday	7.00-10.00	Concrete—Plain and Reinforced ... ..	D 15

# ENGINEERING APPRENTICES' COURSE

## FIRST YEAR—GROUPS A, B and C

Course No.	Day	Time	Subject	Room	
10	Monday	9.30-11.00	Machine Drawing 1A ... ..	B 11	
		11.00-12.30	Heat 1A ... ..	A 8	
		2.00- 3.30	Mechanics 1A ... ..	A 5	
		3.30- 5.30	Mathematics 1A ... ..	B 15	
	Friday	9.30-11.00	Mechanics 1B ... ..	Heat 1C ... ..	A 5
					A 11
		11.00-12.30	Heat 1B ... ..	Mathematics 1C ... ..	A 11
					B 28
		2.00- 3.30	Mechanics 1C ... ..	Machine Drawing 1B ... ..	A 11
					B 11
		3.30- 5.00	Machine Drawing 1C ... ..	Mathematics 1B ... ..	B 11
					B 28

## SECOND YEAR—GROUPS A, B, C and D

Course No.	Day	Time	Subject	Room	
11	Monday	9.30-11.00	Heat 2B ... ..	A 8	
		11.00-12.30	Machine Drawing 2B ... ..	B 11	
		2.00- 3.30	Mathematics 2B ... ..	B 15	
		3.30- 5.00	Mechanics 2B ... ..	A 5	
	Tuesday	9.30-11.00	Mechanics 2D ... ..	Machine Drawing 2C ... ..	A 5
					B 11
		11.00-12.30	Machine Drawing 2D ... ..	Mathematics 2C ... ..	B 11
					B 28
		2.00- 3.30	Mathematics 2D ... ..	Heat 2C ... ..	B 29
					A 11
		3.30- 5.00	Heat 2D ... ..	Mechanics 2C ... ..	A 11
					A 5
Thursday	9.30-11.00	Mechanics 2A ... ..	A 5		
	11.00-12.30	Mathematics 2A ... ..	B 27		
	2.00- 3.30	Physics 2A ... ..	A 11		
	3.30- 5.00	Mathematics 2A ... ..	B 27		

Classes in English are available in the School of Commerce and Retail Distribution, 18 Parnell Square.

## Part-time Engineering Technological Course B

### THIRD YEAR

Course No.	Day	Time	Subject	Room	
12	Monday	9.30-11.00	Applied Mechanics ... ..	A 5	
		11.00-12.30	Applied Mechanics ... ..	A 5	
		2.00- 3.30	Applied Heat ... ..	A 11	
		3.30- 5.00	Applied Heat ... ..	A 11	
	Wednesday	9.30-11.00	Principles of Electricity ... ..	Principles of Electricity ... ..	A 6
					A 6
		2.00- 3.30	Mathematics ... ..	Mathematics ... ..	B 10
					B 10
		7.30- 9.30	Engineering Economics ... ..	B 8	
	Thursday	7.30- 9.30	Machine Drawing ... ..	B 11	



**FOURTH YEAR**

Course No.	Day	Time	Subject	Room
13	Monday	9.30-11.00	Principles of Electricity ... ..	A 7
		11.00-12.30	Principles of Electricity ... ..	A 7
		2.00- 3.30	Applied Heat ... ..	C 6
		3.30- 5.00	Applied Heat ... ..	C 6
		7.30- 9.30	Machine Drawing and Construction ...	B 11
	Wednesday	7.30- 9.30	Engineering Economics ... ..	B 8
	Thursday	9.30-11.30	Mathematics ... ..	B 28
		11.00-12.30	Mathematics ... ..	B 28
		2.00- 3.30	Applied Mechanics ... ..	A 5
		3.30- 5.00	Applied Mechanics ... ..	A 5

**Fitters and Turners**

**THIRD YEAR**

Course No.	Day	Time	Subject	Teacher	Room
14	Friday ...	9.30-11.00	Fitting and Turning ...	Mr. Hunt	D 7
		11.00-12.30	Fitting and Turning ...	Mr. Hunt	D 7
		2.00- 3.30	Fitting and Turning ...	Mr. Hunt	D 7
		3.30- 5.00	Fitting and Turning ...	Mr. Hunt	D 7

**FOURTH YEAR**

15	Monday ...	9.30-11.00	Fitting and Turning ...	Mr. Hunt	D 7
		11.00-12.30	Fitting and Turning ...	Mr. Hunt	D 7
		2.00- 3.30	Fitting and Turning ...	Mr. Hunt	D 7
		3.30- 5.00	Fitting and Turning ...	Mr. Hunt	D 7

**FIFTH YEAR**

16	Tuesday ...	9.30-11.00	Fitting and Turning ...	Mr. Hunt	D 7
		11.00-12.30	Fitting and Turning ...	Mr. Hunt	D 7
		2.00- 3.30	Fitting and Turning ...	Mr. Hunt	D 7
		3.30- 5.00	Fitting and Turning ...	Mr. Hunt	D 7

**Part-time Day Course in Fitting and Turning**

17	Thursday	9.30-11.00	Fitting and Turning ...	Mr. Hunt	D 7
		11.00-12.30	Fitting and Turning ...	Mr. Hunt	D 7
		2.30- 3.30	Fitting and Turning ...	Mr. Hunt	D 7
		3.30- 5.00	Fitting and Turning ...	Mr. Hunt	D 7

**Mechanical Engineering "Sandwich" Courses**

SUBJECT	HOURS OF INSTRUCTION PER WEEK			
	1st Year Course No. 18	2nd Year Course No. 19	3rd Year Course No. 20	4th Year Course No. 21
Mathematics ... ..	3	3	3	3
Applied Mechanics ...	3	3	3	3
Applied Heat and Heat Engines ... ..	3	3	3	3
Principles of Electricity ...	3	3	3	3
Workshop Technology ...	3	3	3	3
Engineering Drawing ...	5½	5½	5½	5½
Powerhouse Practice ...	1½	1½	1½	1½
Workshop Practice... ..	9	9	9	9
English ... ..	1	1	1	1
Religious Instruction ...	½	½	½	½

The first and third years attend during the term September to December. The second and fourth years during the term January to March.



**Mechanical Engineering Institute - Courses**

Year	Course	Hours	Fee	Notes
1927	First Year	120	\$10.00	
	Second Year	120	\$10.00	
	Third Year	120	\$10.00	
	Fourth Year	120	\$10.00	
1928	First Year	120	\$10.00	
	Second Year	120	\$10.00	
	Third Year	120	\$10.00	
	Fourth Year	120	\$10.00	

The first and third years should be taken in the Mechanical Institute. The second and fourth years may be taken in either of the following Institutes:

**FIRST YEAR**

Course No.	Day	Year	Subject	Hours	Fee
10	Monday	1927-1928	Mathematics	120	\$10.00
11	Tuesday	1927-1928	Physics	120	\$10.00
12	Wednesday	1927-1928	Chemistry	120	\$10.00
13	Thursday	1927-1928	English	120	\$10.00

**SECOND YEAR**

Course No.	Day	Year	Subject	Hours	Fee
14	Monday	1928-1929	Mathematics	120	\$10.00
15	Tuesday	1928-1929	Physics	120	\$10.00
16	Wednesday	1928-1929	Chemistry	120	\$10.00
17	Thursday	1928-1929	English	120	\$10.00

**THIRD YEAR**

Course No.	Day	Year	Subject	Hours	Fee
18	Monday	1929-1930	Mathematics	120	\$10.00
19	Tuesday	1929-1930	Physics	120	\$10.00
20	Wednesday	1929-1930	Chemistry	120	\$10.00
21	Thursday	1929-1930	English	120	\$10.00

**Part-time Day Course in Milling and Turning**

Course No.	Day	Year	Subject	Hours	Fee
22	Monday	1927-1928	Milling and Turning	120	\$10.00
23	Tuesday	1927-1928	Milling and Turning	120	\$10.00
24	Wednesday	1927-1928	Milling and Turning	120	\$10.00
25	Thursday	1927-1928	Milling and Turning	120	\$10.00

**Mechanical Engineering Institute - Courses**

Year	Course	Hours	Fee	Notes
1927	First Year	120	\$10.00	
	Second Year	120	\$10.00	
	Third Year	120	\$10.00	
	Fourth Year	120	\$10.00	

Course No.	Day	Year	Subject	Hours	Fee
26	Monday	1927-1928	Mathematics	120	\$10.00
27	Tuesday	1927-1928	Physics	120	\$10.00
28	Wednesday	1927-1928	Chemistry	120	\$10.00
29	Thursday	1927-1928	English	120	\$10.00

**EVENING COURSES**

Course No.	Day	Year	Subject	Hours	Fee
30	Monday	1927-1928	Mathematics	120	\$10.00
31	Tuesday	1927-1928	Physics	120	\$10.00
32	Wednesday	1927-1928	Chemistry	120	\$10.00
33	Thursday	1927-1928	English	120	\$10.00



# MECHANICAL ENGINEERING

## Course A

### Technological Certificate Courses

#### ELEMENTARY STAGE

Class No.	SUBJECT	Day	Hour	Room	TEACHER
<b>FIRST YEAR</b>					
1	Machine Drawing ... ..	Wednesday	7.30-9.30	B 11	B. E. Fee R. Daly
2	Heat ... ..	Tuesday	7.00-8.30	A.11	M. Marren
3	Mechanics ... ..	Tuesday	8.30-10.00	A 5	E. P. Dunne
4	Mathematics ... ..	Friday	7.00-8.30	A 8	W. J. O'Doherty
<b>SECOND YEAR :</b>					
5	Machine Drawing ... ..	Thursday	7.30-9.30	B 11	B. E. Fee J. Lawless
6	Heat ... ..	Tuesday	8.30-10.00	A 11	M. Marren
7	Mechanics ... ..	Tuesday	7.00-8.30	A 5	E. P. Dunne
8	Mathematics ... ..	Friday	8.30-10.00	A 8	W. J. O'Doherty

#### INTERMEDIATE STAGE

<b>THIRD YEAR :</b>					
9	Machine Drawing and Construction ... ..	Monday	7.30-9.30	B 11	J. Roche
10	Heat and Heat Engines ... ..	Friday	7.00-8.30	A 11	J. McCabe
11	Applied Mechanics ... ..	Friday	8.30-10.00	A 5	E. P. Dunne
12	Mathematics ... ..	Thursday	7.30-9.30	C 7	W. J. O'Doherty

#### ADVANCED STAGE

<b>FOURTH YEAR :</b>					
13	Machine Construction and Design	Tuesday	7.00-10.00	B 10	J. C. Fitzpatrick
14	Heat Engines ... ..	Friday	8.30-10.00	A 11	J. McCabe
15	Applied Mechanics ... ..	Friday	7.00-8.30	A 5	E. P. Dunne
16	Mathematics ... ..	Thursday	7.30-9.30	B 10	G. McAuliffe

#### Higher Technological Stage

<b>FIFTH YEAR :</b>					
17	Machine Design ... ..	Friday	7.00-10.00	B 10	J. C. Fitzpatrick
18	Internal Combustion Engines	Wednesday	7.00-8.30	A 11	F. Drechsler
19	Steam ... ..	Wednesday	8.30-10.00	A 11	F. Drechsler
20	Strength of Materials ... ..	Monday	7.00-8.30	C 7	M. D. McCarthy
21	Mathematics ... ..	Monday	8.30-10.00	C 7	M. D. McCarthy
22	Theory of Machines ... ..	Tuesday	7.00-8.30	D 15	M. D. McCarthy
<b>SIXTH YEAR :</b>					
23	Machine Design ... ..	Friday	7.00-10.00	B 10	J. C. Fitzpatrick
24	Internal Combustion Engines	Wednesday	7.00-8.30	A 11	F. Drechsler
25	Steam ... ..	Wednesday	8.30-10.00	A 11	F. Drechsler
26	Strength of Materials ... ..	Monday	7.00-8.30	C 7	M. D. McCarthy
27	Mathematics ... ..	Monday	8.30-10.00	C 7	M. D. McCarthy
28	Theory of Machines ... ..	Tuesday	8.30-10.00	D 15	M. D. McCarthy

# MECHANICAL ENGINEERING

## Course B

### Associate Membership Examination of the Institution of Mechanical Engineers

Class No.	Subject	Day	Hour	Room	Teacher
<b>PRELIMINARY YEAR :</b>					
	English ... ..	Wednesday	7.30-9.30	*	*
29	Physics ... ..	Monday	8.30-10.00	A 11	M. Marren
30	Mechanics ... ..	Monday	7.00-8.30	A 5	A. Whelan
31	Mathematics ... ..	Tuesday	7.00-10.00	C 7	W. J. O'Doherty
<b>FIRST YEAR :</b>					
32	Engineering Drawing ... ..	Wednesday	7.00-10.00	B 10	J. Roche
33	Heat, Light and Sound ... ..	Monday	7.00-8.30	A 11	
34	Mechanics ... ..	Monday	8.30-10.00	A 5	A. Whelan
35	Mathematics ... ..	Friday	7.00-8.30	C 7	A. Whelan
36	Principles of Electricity ... ..	Tuesday	7.00-8.30	A 6	J. Tighe
<b>SECOND YEAR :</b>					
37	Engineering Drawing ... ..	Monday	7.00-10.00	B 10	J. C. Fitzpatrick
38	Heat, Light and Sound ... ..	Thursday	8.30-10.00	A 11	J. McCabe
39	Mechanics ... ..	Thursday	7.00-8.30	A 5	J. McCabe
40	Mathematics ... ..	Friday	8.30-10.00	C 7	A. Whelan.
41	Principles of Electricity ... ..	Tuesday	8.30-10.00	A 6	J. Tighe
<b>THIRD YEAR</b>					
17	Machine Design ... ..	Friday	7.00-10.00	B 10	J. C. Fitzpatrick
18	Internal Combustion Engines	Wednesday	7.00-8.30	A 11	F. Drechsler
19	Steam ... ..	Wednesday	8.30-10.00	A 11	F. Drechsler
20	Strength of Materials ... ..	Monday	7.00-8.30	C 7	M. D. McCarthy
21	Mathematics ... ..	Monday	8.30-10.00	C 7	M. D. McCarthy
22	Theory of Machines ... ..	Tuesday	7.00-8.30	D 15	M. D. McCarthy
42	Industrial Administration ... ..	Thursday	7.00-10.00	B 8	W. Lismore
<b>FOURTH YEAR :</b>					
23	Machine Design ... ..	Friday	7.00-10.00	B 10	J. C. Fitzpatrick
24	Internal Combustion Engines	Wednesday	7.00-8.30	A 11	F. Drechsler
25	Steam ... ..	Wednesday	8.30-10.00	A 11	F. Drechsler
26	Strength of Materials ... ..	Monday	7.00-8.30	C 7	M. D. McCarthy
27	Mathematics ... ..	Monday	8.30-10.00	C 7	M. D. McCarthy
28	Theory of Machines ... ..	Tuesday	8.30-10.00	D 15	M. D. McCarthy
42	Industrial Administration ... ..	Thursday	7.00-10.00	B 8	W. Lismore

\* The class in English will be held in the School of Commerce and Retail Distribution, 18 Parnell Square.



## CIVIL ENGINEERING AND STRUCTURAL ENGINEERING

### PRELIMINARY YEAR

Class No.	Subject	Day	Hour	Room	Teacher
4	Mathematics ... ..	Friday	7.00-8.30	A 8	W. J. O'Doherty
3	Mechanics ... ..	Tuesday	8.30-10.00	A 5	E. P. Dunne
2	Heat ... ..	Tuesday	7.00-8.30	A 11	M. Marren
1	Machine Drawing ... ..	Wednesday	7.30-9.30	B 11	B. E. Fee, R. Daly

### FIRST YEAR

8	Mathematics ... ..	Wednesday	7.30-9.30	A 8	W. O'Doherty
7	Mechanics ... ..	Tuesday	7.00-8.30	A 5	E. P. Dunne
6	Heat ... ..	Tuesday	8.30-10.00	A 11	M. Marren
5	Machine Drawing ... ..	Thursday	7.30-9.30	B 11	B. E. Fee J. Lawless

### SECOND YEAR

43	Mathematics ... ..	Wednesday	7.00-10.00	D 15	J. Lenihan
11	Applied Mechanics ... ..	Friday	8.00-10.00	A 5	E. P. Dunne
44	Strength of Materials ... ..	Monday	7.00-8.30	A 7	J. Moynihan
45	Theory of Structures ... ..	Monday	8.30-10.00	A 7	J. Moynihan

### THIRD YEAR

46	Strength of Materials ... ..	Wednesday	7.00-8.30	A 7	J. Moynihan
47	Theory of Structures ... ..	Wednesday	8.30-10.00	A 7	J. Moynihan
15	Applied Mechanics ... ..	Friday	7.00-8.30	A 5	E. P. Dunne
48	Structural Engineering ... ..	Monday	7.00-10.00	D 15	S. Kenny

### FOURTH YEAR

49	Municipal Engineering... ..	Tuesday	7.00-10.00	A 7	
50	Concrete—Plain and Reinforced	Friday	7.00-10.00	D 15	H. Clifton
51	Surveying and Levelling ... ..	Monday	7.00-10.00	B 29	W. O'Brien
52	Drawing, Specification and Quantities ... ..	Thursday	8.30-10.00	A 5	H. Clifton
20	Strength of Materials ... ..	Monday	7.00-8.30	C 7	M. D. McCarthy
48	Structural Engineering ... ..	Monday	7.00-10.00	D 15	S. Kenny

Note: 1. Fieldwork on Saturday afternoons during late spring and early summer.

## MARINE ENGINEERS' CERTIFICATE COURSE

### (Part A)

### ELEMENTARY STAGE

Class No.	Subject	Day	Hour	Room	Teacher
<b>FIRST YEAR</b>					
1	Machine Drawing ... ..	Wednesday	7.30-9.30	B 11	B. E. Fee, R. Daly
2	Heat ... ..	Tuesday	7.00-8.30	A 11	M. Marren
3	Mechanics ... ..	Tuesday	8.30-10.00	A 5	E. P. Dunne
4	Mathematics ... ..	Friday	7.00-8.30	A 8	W. J. O'Doherty
<b>SECOND YEAR :</b>					
5	Machine Drawing ... ..	Thursday	7.30-9.30	B 11	B. E. Fee, J. Lawless
6	Heat ... ..	Tuesday	8.30-10.30	A 11	M. Marren
7	Mechanics ... ..	Tuesday	7.00-8.30	A 5	E. P. Dunne
8	Mathematics ... ..	Friday	8.30-10.00	A 8	W. J. O'Doherty

### INTERMEDIATE STAGE

<b>THIRD YEAR :</b>					
9	Machine Drawing and Con- struction ... ..	Monday	7.30-9.30	B 11	J. Roche
10	Heat and Heat Engines ... ..	Friday	7.00-8.30	A 11	J. McCabe
11	Applied Mechanics ... ..	Friday	8.30-10.00	A 5	E. P. Dunne
12	Mathematics ... ..	Thursday	7.30-9.30	C 7	W. J. O'Doherty

### ADVANCED STAGE

<b>FOURTH YEAR :</b>					
13	Machine Construction and Design ... ..	Tuesday	7.00-10.00	B 10	J. C. Fitzpatrick
14	Heat Engines ... ..	Friday	8.30-10.00	A 11	J. McCabe
15	Applied Mechanics ... ..	Friday	7.00-10.00	A 5	E. P. Dunne
16	Mathematics ... ..	Thursday	7.30-9.30	B 10	G. McAuliffe

**Note.**—Students successful at the Department of Education Advanced Stage Examinations in Applied Mechanics and Heat Engines and the Inter. Stage Examination in Machine Drawing and Construction, Mechanical Engineering Course, are exempt from Part A of the Certificate of Competency Examination (2nd Class) of the Board of Trade.



# HEATING, VENTILATING AND AIR CONDITIONING

## FIRST YEAR

Class No.	Subject	Day	Hour	Room	Teacher
1	Machine Drawing ... ..	Wednesday	7.30-9.30	B 11	B. E. Fee
2	Heat ... ..	Tuesday	7.00-8.30	A 8	M. Marren
3	Mechanics ... ..	Tuesday	8.30-10.00	A 11	E. P. Dunne
4	Mathematics ... ..	Friday	7.00-8.30	A 5	W. J. O'Doherty

## SECOND YEAR

5	Machine Drawing ... ..	Thursday	7.30-9.30	B 11	B. E. Fee
6	Heat ... ..	Tuesday	8.30-10.00	A 11	M. Marren
7	Mechanics ... ..	Tuesday	7.00-8.30	A 5	E. P. Dunne
8	Mathematics ... ..	Friday	8.30-10.00	A 8	W. J. O'Doherty

## THIRD YEAR

9	Machine Draw. and Construction	Monday	7.30-9.30	B 11	J. Roche
10	Heat and Heat Engines ... ..	Friday	7.00-8.30	A 8	J. McCabe
11	Applied Mechanics ... ..	Friday	8.30-10.00	A 5	E. P. Dunne
12	Mathematics ... ..	Thursday	7.30-9.30	C 7	W. J. O'Doherty

## FOURTH YEAR

13	Machine Construction and Design	Tuesday	7.00-10.00	B 10	J. Fitzpatrick
14	Heat Engines ... ..	Friday	8.30-10.00	A 11	J. McCabe
15	Applied Mechanics ... ..	Friday	7.00-8.30	A 5	E. P. Dunne
16	Mathematics ... ..	Thursday	7.30-9.30	B 10	G. McAuliffe

## FIFTH AND SIXTH YEARS

53	Heating and Hot Water Service	—	7.30-9.30	—	—
54	Ventilation and Air Conditioning	—	7.30-9.30	—	—
55	Mechanics of Fluids ... ..	Friday	7.00-8.30	A 7	—
56	Boiler House Practice ... ..	—	7.30-9.30	—	—

# MARINE ENGINEERING

## FIRST YEAR

Class No	Subject	Day	Hour	Room	Teacher
32	Engineering Drawing ... ..	Wednesday	7.00-10.00	B 10	J. Roche
10	Heat and Heat Engines ... ..	Friday	7.00-8.30	A 11	J. McCabe
11	Applied Mechanics ... ..	Friday	8.30-10.00	A 5	E. P. Dunne
12	Mathematics ... ..	Thursday	7.30-9.30	C 7	W. J. O'Doherty
36	Principles of Electricity ... ..	Tuesday	8.30-10.00	A 6	J. Tighe

## SECOND YEAR

37	Engineering Drawing ... ..	Monday	7.00-10.00	B 10	J. C. Fitzpatrick
14	Heat Engines ... ..	Friday	8.30-10.00	A 11	J. McCabe
15	Applied Mechanics ... ..	Friday	7.30-9.30	A 5	E. P. Dunne
16	Mathematics ... ..	Thursday	7.30-9.30	B 10	G. McAuliffe
41	Principles of Electricity ... ..	Tuesday	7.00-8.30	A 6	J. Tighe

## THIRD YEAR

18	Internal Combustion Engines	Wednesday	7.00-8.30	A 11	F. Drechsler
19	Steam ... ..	Wednesday	8.30-10.00	A 11	F. Drechsler
20	Strength of Materials ... ..	Monday	7.00-8.30	C 7	M. D. McCarthy
55	Mechanics of Fluids ... ..	Friday	7.00-8.30	A 7	
	or				
17	Machine Design	Friday	7.00-10.00	B 10	J. C. Fitzpatrick
	or				
22	Theory of Machines ... ..	Tuesday	7.00-8.30	D 15	M. D. McCarthy
42	Industrial Administration ... ..	Thursday	7.00-10.00	B 8	W. Lismore

## FOURTH YEAR

24	Internal Combustion Engines	Wednesday	7.00-8.30	A 11	F. Drechsler
25	Steam ... ..	Wednesday	8.30-10.00	A 11	F. Drechsler
26	Strength of Materials ... ..	Monday	7.00-8.30	C 7	M. D. McCarthy
55	Mechanics of Fluids ... ..	Friday	7.00-8.30	A 7	
	or				
23	Machine Design	Friday	7.00-10.00	B 10	J. C. Fitzpatrick
	or				
28	Theory of Machines ... ..	Tuesday	8.30-10.00	D 15	M. D. McCarthy
42	Industrial Administration ... ..	Thursday	7.00-10.00	B 8	W. Lismore



# MOTOR CAR ENGINEERING

## Technological Course

### FIRST YEAR

Class No.	Subject	Day	Time	Room	Teacher
30	Mechanics ... ..	Monday	7.00-8.30	A 5	A. Whelan
29	Physics ... ..	Monday	8.30-10.00	A 11	M. Marren
152	Motor Engineering ... ..	Thurs	7.00-8.30	B 15	T. Giblin
4	Mathematics ... ..	Friday	7.00-8.30	A 8	W. J. O'Doherty
1	Machine Drawing ... ..	Wednesday	7.30-9.30	B 11	B. E. Fee, R. Daly
—	English* ... ..	—	—	—	—

### SECOND YEAR

7	Mechanics ... ..	Tuesday	7.00-8.30	A 5	E. P. Dunne
6	Heat ... ..	Tuesday	8.30-10.00	A 11	M. Marren
160	Motor Engineering ... ..	Mon.	7.00-8.30	B 15	T. Giblin
8	Mathematics ... ..	Friday	8.30-10.00	A 8	W. J. O'Doherty
5	Machine Drawing ... ..	Thursday	7.30-9.30	B 11	B. E. Fee, J. Lawless
—	English* ... ..	—	—	—	—

### THIRD YEAR

11	Applied Mechanics ... ..	Friday	8.30-10.00	A 5	E. P. Dunne
10	Heat and Heat Engines ... ..	Friday	7.00-8.30	A 11	J. McCabe
164	Motor Engineering ... ..	Tuesday	7.30-9.30	B 15	J. N. Brooks
12	Mathematics ... ..	Thursday	7.30-9.30	C 7	W. J. O'Doherty

### FOURTH YEAR

15	Applied Mechanics ... ..	Friday	7.00-8.30	A 5	E. P. Dunne
14	Heat Engines ... ..	Friday	8.30-10.00	A 11	J. McCabe
168	Motor Engineering ... ..	Wednesday	7.30-9.30	B 15	J. N. Brooks

### FIFTH YEAR

172	Motor Engineering ... ..	Friday	7.00-10.00	B 15	J. N. Brooks
173	Workshop Organisation and Administration ... ..	—	—	—	—

\* Class in English is conducted in the School of Commerce and Retail Distribution, 18 Parnell Square.

# AERONAUTICAL ENGINEERING

## ASSOCIATE FELLOWSHIP EXAMINATIONS OF THE ROYAL AERONAUTICAL SOCIETY

### FIRST YEAR

Class No.	Subject	Day	Hour	Room	Teacher
33	Heat, Light and Sound ... ..	Monday	7.00-8.30	A 11	—
34	Mechanics ... ..	Monday	8.30-10.00	A 5	A. Whelan
35	Mathematics ... ..	Friday	7.00-8.30	C 7	A. Whelan
36	Principles of Electricity ... ..	Tuesday	7.00-8.30	A 6	J. Tighe

### SECOND YEAR

38	Heat, Light and Sound ... ..	Thursday	8.30-10.00	A 5	J. McCabe
39	Mechanics ... ..	Thursday	7.00-8.30	A 11	J. McCabe
40	Mathematics ... ..	Friday	8.30-10.00	C 7	A. Whelan
41	Principles of Electricity ... ..	Tuesday	8.30-10.00	A 6	J. Tighe

### THIRD YEAR

17	Machine Design ... ..	Friday	7.00-10.00	B 10	J. C. Fitzpatrick
18	Internal Combustion Engines ... ..	Wednesday	7.00-8.30	A 11	F. Drechsler
20	Strength of Materials ... ..	Monday	7.00-8.30	C 7	M. D. McCarthy
22	Theory of Machines ... ..	Tuesday	7.00-8.30	D 15	M. D. McCarthy
42	Industrial Administration ... ..	Thursday	7.00-10.00	B 8	W. Lismore

### FOURTH YEAR

23	Machine Design ... ..	Friday	7.00-10.00	B 10	J. C. Fitzpatrick
24	Internal Combustion Engines ... ..	Wednesday	7.00-8.30	A 11	F. Drechsler
26	Strength of Materials ... ..	Monday	7.00-8.30	C 7	M. D. McCarthy
28	Theory of Machines ... ..	Tuesday	8.30-10.00	D 15	M. D. McCarthy
42	Industrial Administration ... ..	Thursday	7.00-10.00	B 8	W. Lismore



## AERO-MECHANICS' LICENCE COURSES

### FIRST YEAR

Class No.	Subject	Licence Category	Day	Time	Teacher	Room
141	Engineering Drawing, Materials & Processes	A & C	Mon.	7.00-10.0	D McMahon	B 13
142	Aero-Engineering ...	A & C	Tues.	7.00-10.0	J. Humphreys	C 6
143	Aero-Engineering ...	A & C	Thur.	7.00-10.0	T. McInerney	C 6

### SECOND YEAR ("DC 3" and "PRATT & WHITNEY")

144	Aero-Engineering ...	A & C	Wed.	7.00-10.0	R. O'Shea	A 8
145	Aero-Engineering ...	A	Mon.	7.00-10.0	J. Humphreys	A 8
146	Aero-Engineering ...	C	Friday	7.00-10.0	T. McInerney	C 6

### SECOND YEAR (VISCOUNT and TURBO-PROP.)

147	Aero-Engineering ...	A & C	Mon.	7.00-10.0	P. J. Taylor	C 6
148	Aero-Engineering ...	A	Thur.	7.00-10.0	P. Taylor	A 7
149	Aero-Engineering ...	C	Wed.	7.00-10.0	T. McInerney	C 6

## DIESEL MAINTENANCE

Class No.	Subject	Day	Time	Teacher	Room
133	Diesel Maintenance—Theory I	Friday	8.30-10.00	J. Boylan	A 6
134	Diesel Maintenance—Practical I	Tuesday	7.00-10.00	T. McSweeney	C 15
135	Diesel Maintenance—Theory II	Wednesday	8.30-10.00	J. Boylan	A 6
136	Diesel Maintenance—Practical II	Thursday	7.00-10.00	T. McSweeney	C 15

## WELDING TECHNOLOGY

137	Welding Technology ...	Friday	7.30-9.30	—	C 9
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## STRUCTURAL STEELWORK

138	Theory and Drawing ...	—	7.30-9.30	Mr. Shatwell	—
139	Practical ...	Monday	7.30-9.30	Mr. McGloughlin	D 10

## TRADE CERTIFICATE COURSES

(Trade Apprentices and Mechanics)

### Fitters' Work and Turners' Work

#### JUNIOR STAGE

Class No.	Subject	Day	Hour	Room	Teacher
FIRST YEAR					
60	Fitting and Turning ... 1 A	Thursday	7.30-9.30	D 5	W. De Renzy
61	Workshop Theory ... 1 A	Tuesday	8.35-9.35	C 5	D. Aungier
and					
62	Workshop Calculations 1 A	Tuesday	7.30-8.30	C 2	J. J. Hughes
63	Mechanical Drawing 1 A	Wednesday	7.30-9.30	B 13	J. Roche
64	Fitting and Turning ... 1 B	Wednesday	7.30-9.30	D 5	W. de Renzy
65	Workshop Theory ... 1 B	Tuesday	7.30-8.30	C 5	D. Aungier
and					
66	Workshop Calculations 1 B	Tuesday	8.35-9.35	C 2	J. J. Hughes
67	Mechanical Drawing 1 B	Friday	7.30-9.30	B 13	J. Roche
68	Fitting and Turning ... 1 C	Tuesday	7.30-9.30	D 5	R. Tynan
69	Workshop Theory ... 1 C	Thursday	8.35-9.35	C 5	D. Aungier
and					
70	Workshop Calculations 1 C	Thursday	7.30-8.30	C 2	J. J. Hughes
67	Mechanical Drawing 1 C	Friday	7.30-9.30	B 13	J. Roche
71	Fitting and Turning ... 1 D	Monday	7.30-9.30	D 5	R. Tynan
72	Workshop Theory ... 1 D	Thursday	7.30-8.30	C 5	D. Aungier
and					
73	Workshop Calculations 1 D	Thursday	8.35-9.35	C 2	J. J. Hughes
63	Mechanical Drawing 1 D	Wednesday	7.30-9.30	B 13	J. Roche
SECOND YEAR :					
74	Fitting and Turning ... 2 A	Tuesday	7.30-9.30	D 7	G. Aungier, W. De Renzy
75	Workshop Theory ... 2 A	Wednesday	7.30-8.30	C 5	J. Gribben
and					
76	Workshop Calculations 2 A	Wednesday	8.35-9.35	C 2	J. J. Hughes
77	Mechanical Drawing 2 A	Friday	7.30-9.30	B 11	B. E. Fee, J. Lawless
78	Fitting and Turning ... 2 B	Monday	7.30-9.30	D 7	G. Aungier, W. De Renzy
79	Workshop Theory ... 2 B	Wednesday	8.35-9.35	C 5	J. Gribben
and					
80	Workshop Calculations 2 B	Wednesday	7.30-8.30	C 2	J. J. Hughes
81	Mechanical Drawing 2 B	Thursday	7.30-9.30	B 13	J. Roche
82	Fitting and Turning ... 2 C	Thursday	7.30-9.30	D 7	G. Aungier, R. Tynan
79	Workshop Theory ... 2 C	Wednesday	8.35-9.35	C 5	J. Gribben
and					
80	Workshop Calculations 2 C	Wednesday	7.30-8.30	C 2	J. J. Hughes
77	Mechanical Drawing 2 C	Friday	7.30-9.30	B 11	B. E. Fee, J. Lawless



## Trade Certificate Courses (continued)

### SENIOR STAGE

Class No.	Subject	Day	Hour	Room	Teacher
<b>THIRD YEAR:</b>					
83	Fitting and Turning ... ..	Wednesday	7.30-9.30	D 7	G. Aungier, R. Tynan
84	Workshop Theory ... .. and	Monday	7.30-8.30	C 5	R. Stephen
85	Workshop Calculations ... ..	Monday	8.35-9.35	C 2	J. J. Hughes
86	Machine Drawing ... ..	Tuesday	7.30-9.30	B 13	J. Roche
<b>FOURTH YEAR:</b>					
87	Fitting and Turning ... ..	Friday	7.30-9.30	D 7	G. Aungier, R. Tynan
88	Workshop Theory ... .. and	Monday	8.35-9.35	C 5	R. Stephens
89	Workshop Calculations ... ..	Monday	7.30-8.30	C 2	J. J. Hughes
90	Machine Drawing ... ..	Tuesday	7.30-9.30	B 11	B. Pee J. Lawless
<b>FIFTH YEAR:</b>					
87	Fitting and Turning ... ..	Friday	7.30-9.30	D.7	G. Aungier, R. Tynan

### Patternmaking

<b>FIRST YEAR:</b>					
91, 92	Patternmaking ... ..	Tues, Thur.	7.30-9.30	B 14	E. J. Kennedy
93	Workshop Drawing ... ..	Monday	7.30-9.30	B 14	E. J. Kennedy
<b>SECOND YEAR:</b>					
91, 92	Patternmaking ... ..	Tues, Thur.	7.30-9.30	B 14	E. J. Kennedy
93	Workshop Drawing ... ..	Monday	7.30-9.30	B 14	E. J. Kennedy
<b>THIRD YEAR:</b>					
91, 92	Patternmaking ... ..	Tues, Thur.	7.30-9.30	B 14	E. J. Kennedy
93	Workshop Drawing ... ..	Monday	7.30-9.30	B 14	E. J. Kennedy

### Foundry Work

<b>IRONMOULDING</b>					
94	Ironmoulding—Practical ... ..	Friday	7.30-9.30	D 4	T. C. Smith
95	Foundry Work—Theory ... ..	Thursday	7.30-9.30	D 4	T. C. Smith
63	Mechanical Drawing ... ..	Wednesday	7.30-9.30	B 13	J. Roche
<b>BRASSMOULDING</b>					
96	Brassmoulding—Practical ... ..	Monday	7.30-9.30	D 4	C. Maples
97	Brassmoulding—Theory ... ..	Tuesday	7.30-9.30	D 4	C. Maples
63	Mechanical Drawing ... ..	Friday	7.30-9.30	B 13	J. Roche

## Brass Finishing

Class No.	Subject	Day	Hour	Room	Teacher
<b>FIRST YEAR:</b>					
100	Brassfinishing—Practical ... ..	Monday	7.30-9.30	C 10	M. O'Carroll
69	Workshop Theory ... .. and	Thursday	8.35-9.35	C 5	D. Aungier
70	Workshop Calculations ... ..	Thursday	7.30-8.30	C 2	J. J. Hughes
63	Mechanical Drawing ... ..	Wednesday	7.30-9.30	B 13	J. Roche
<b>SECOND YEAR:</b>					
101	Brassfinishing—Practical (Eng.)	Friday	7.30-9.30	C 10	M. O'Carroll
102	Brassfinishing Practical—(Art)	Thursday	7.30-9.30	C 10	—
79	Workshop Theory ... .. and	Wednesday	8.35-9.35	C 5	J. Gribben
80	Workshop Calculations ... ..	Wednesday	7.30-8.30	C 2	J. J. Hughes
81	Mechanical Drawing ... ..	Thursday	7.30-9.30	B 13	J. Roche
<b>THIRD YEAR:</b>					
101	Brassfinishing—Practical (Eng.)	Friday	7.30-9.30	C 10	M. O'Carroll
102	Brassfinishing—Practical (Art)	Thursday	7.30-9.30	C 10	—
84	Workshop Theory ... .. and	Monday	7.30-8.30	C 5	J. Gribben
85	Workshop Calculations ... ..	Monday	8.35-9.35	C 2	J. J. Hughes
86	Machine Drawing ... ..	Tuesday	7.30-9.30	B 13	J. Roche

Students are recommended to add a class in Free Drawing and Design.

### Boilermaking

<b>FIRST YEAR</b>					
103	Boilermaking Lectures and Drawing I. ... ..	Wednesday	7.30-9.30	C 22	E. Bennett
104	Boilermaking, Practical I. ... ..	Tuesday	7.30-9.30	D 10	E. Bennett.
<b>SECOND YEAR</b>					
105	Boilermaking, Lectures and Drawing II ... ..	Monday	7.30-9.30	C 22	E. Bennett
106	Boilermaking, Practical II. ... ..	Thursday	7.30-9.30	D 10	E. Bennett

Students are recommended to add a suitable class in Mathematics.

### Smithwork and Art Ironwork

107	Smithwork, Practical ... ..	Wednesday	7.30-9.30	D 10	A. J. Ward
108	Art Ironwork, Practical ... ..	Friday	7.30-9.30	D 10	A. J. Ward
63/67	Machine Drawing ... ..	Friday or Wednesday	7.30-9.30	B 13	J. Roche

Students are recommended to add a class in Design



## Trade Certificate Courses (continued)

### Metal Plate Work

Class No.	Subject	Day	Hour	Room	Teacher
<b>FIRST YEAR :</b>					
110	Metal Plate Work, Lectures and Drawing ... 1	Monday	7.30-9.30	B 27	J. Bryan
111	Metal Plate Work, Practical 1	Tuesday	7.30-9.30	D 2	A. O'Toole J. Bryan
<b>SECOND YEAR :</b>					
112	Metal Plate Work, Lectures and Drawing ... 2	Tuesday	7.30-9.30	B 27	C. Devine
113	Metal Plate Work, Practical 2	Wednesday	7.30-9.30	D 2	A. O'Toole M. Kane
<b>THIRD YEAR :</b>					
114	Metal Plate Work, Lectures and Drawing ... 3	Wednesday	7.30-9.30	B 27	J. Bryan
115	Metal Plate Work, Practical 3	Thursday	7.30-9.30	D 2	M. Kane C. Devine
<b>FOURTH YEAR :</b>					
116	Metal Plate Work, Lectures and Drawing ... 4	Thursday	7.30-9.30	B 27	A. O'Toole
117	Metal Plate Work, Practical 4	Friday	7.30-9.30	D 2	M. Kane C. Devine
<b>FIFTH YEAR :</b>					
118	Metal Plate Work, Lectures and Drawing ... 5	Friday	7.30-9.30	B 27	A. O'Toole
119	Metal Plate Work, Practical 5	Monday	7.30-9.30	D 2	A. O'Toole M. Kane

### Oxy-Acetylene and Electric Welding

Class No.	Subject	Day	Hour	Room	Teacher
<b>FIRST YEAR</b>					
120	Oxy-Acetylene and Electric Welding ... 1 A	Monday	7.30-9.30	D 1	P. Cowley
121	Welding Theory ... 1 A	Thursday	7.00-8.30	A 11	F. McCarroll
122	Oxy-Acetylene and Electric Welding ... 1 B	Tuesday	7.30-9.30	D 1	P. Cowley
123	Welding Theory ... 1 B	Thursday	7.00-8.30	A 11	F. McCarroll
<b>SECOND YEAR :</b>					
124	Oxy-Acetylene and Electric Welding ... 2 A	Wednesday	7.30-9.30	D 1	P. Cowley
125	Welding Theory ... 2 A	Friday	7.30-9.30	C 5	F. McCarroll
126	Oxy-Acetylene and Electric Welding ... 2 B	Thursday	7.30-9.30	D 1	P. Cowley
127	Welding Theory ... 2 B	Friday	7.30-9.30	C 5	F. McCarroll
<b>THIRD and FOURTH YEARS:</b>					
128	Oxy-Acetylene and Electric Welding ...	Friday	7.30-9.30	D 1	P. Cowley
129	Welding Theory ...	Wednesday	7.30-9.30	D 4	F. McCarroll

### PHYSICAL TRAINING (Men)

Class No.	Subject	Day	Hour	Room	Teacher
130	Physical Training Div. I ...	Monday	7.30-9.30	C 9	M. C. Doogan
131	Physical Training Div. II. ...	Tuesday	7.30-9.30	C 9	M. C. Doogan
132	Physical Training Div. III ...	Wednesday	7.30-9.30	C 9	M. C. Doogan

## APPRENTICE MOTOR MECHANICS

### Evening Courses

Class No.	Subject	Day	Hour	Room	Teacher
<b>FIRST YEAR :</b>					
150	Garage Practice ...	Friday	7.30-9.30	C 15	---
151	Workshop Practice ...	Wednesday	7.30-9.30	C 10	---
152	Motor Engineering (Lecture) A	Thursday	7.00-8.30	B 15	T. Giblin
153	Electricity ... A	Thursday	8.30-10.00	A 6	J. Tighe
154	Motor Engineering (Lecture) B.	Thursday	8.30-10.00	B 15	T. Giblin
155	Electricity ... B	Thursday	7.00-8.30	A 6	J. Tighe
<b>SECOND YEAR :</b>					
156	Garage Practice ...	Wednesday	7.30-9.30	C 15	R. J. Dowling
157	Workshop Practice ...	Tuesday	7.30-9.30	D 8	---
158	Motor Engineering (Lecture) A	Monday	8.30-10.00	B 15	T. Giblin
159	Electricity ... A	Monday	7.00-8.30	A 6	J. Tighe
160	Motor Engineering (Lecture) B	Monday	7.00-8.30	B 15	T. Giblin
161	Electricity ... B	Monday	8.30-10.00	A 6	J. Tighe
<b>THIRD YEAR :</b>					
162	Garage Practice ...	Monday	7.30-9.30	C 15	R. J. Dowling
163	Workshop Practice ...	Thursday	7.30-9.30	D 8	---
164	Motor Engineering (Lecture)	Tuesday	7.30-9.30	B 15	J. N. Brooks
165	Automobile Electricity ...	Wednesday	7.00-8.30	A 6	J. Bryan
<b>FOURTH YEAR :</b>					
166	Garage Practice ...	Monday	7.30-9.30	C 15	R. J. Dowling
167	Workshop Practice ...	Thursday	7.30-9.30	D 8	---
168	Motor Engineering (Lecture) ...	Wednesday	7.30-9.30	B 15	J. N. Brooks
169	Automobile Electricity ...	Friday	7.00-8.30	A 6	J. Bryan
<b>FIFTH YEAR :</b>					
170	Garage Practice ...	Monday	7.30-9.30	C 15	R. J. Dowling
171	Workshop Practice ...	Thursday	7.30-9.30	D 8	---
172	Motor Engineering (Lecture) ...	Friday	7.00-10.00	B 15	J. N. Brooks

Students entering this Course must have satisfactorily completed two years in a Day Junior Technical School or two years of an approved evening Course.



## PART-TIME DAY AND EVENING COURSES

### Apprentice Motor Mechanics—Course A

Class No.	Subject	Day	Hour	Room	Teacher
<b>FIRST YEAR :</b>					
	Garage Practice or ... ..	Friday	9.30-12.30	C 15	—
	Workshop Practice ... ..	Friday	9.30-12.30	D 8	T. Giblin
	Motor Engineering Lecture and Technical Drawing ... ..	Friday	2.00-5.00	B 15	—
155	Electricity ... ..	Thursday	7.00-8.30	A 6	J. Tighe
77	Mechanical Drawing ... ..	Wednesday	7.30-9.30	B 13	J. Roche
<b>SECOND YEAR :</b>					
	Garage Practice or ... ..	Monday	2.00-5.00	C 15	T. Giblin
	Workshop Practice ... ..	Monday	2.00-5.00	D 8	S. Guirke
	Motor Engineering Lecture and Technical Drawing ... ..	Monday	9.30-12.30	B 15	—
159	Electricity ... ..	Monday	7.00-8.30	A 6	J. Tighe
81	Mechanical Drawing ... ..	Thursday	7.30-9.30	B 13	J. Roche
<b>THIRD YEAR :</b>					
	Garage Practice or ... ..	Thursday	9.30-12.30	C 15	R. J. Dowling
	Workshop Practice ... ..	Thursday	9.30-12.30	D 8	S. Guirke
	Motor Engineering Lecture and Technical Drawing ... ..	Thursday	2.00-5.00	B 15	—
6	Heat ... ..	Tuesday	8.30-10.00	A 11	M. Marren
7	Mechanics ... ..	Tuesday	7.00-8.30	A 5	E. P. Dunne
81	Machine Drawing ... ..	Thursday	7.30-9.30	B 13	J. Roche
<b>FOURTH YEAR :</b>					
	Garage Practice or ... ..	Wednesday	9.30-12.30	C 15	R. J. Dowling
	Workshop Practice ... ..	Wednesday	9.30-12.30	D 8	S. Guirke
	Motor Engineering Lecture and Technical Drawing ... ..	Wednesday	2.00-5.00	B 15	—
10	Heat and Heat Engines ... ..	Friday	7.00-8.30	A 11	J. McCabe
7	Applied Mechanics ... ..	Friday	8.30-10.00	A 5	E. P. Dunne
86	Machine Drawing ... ..	Tuesday	7.30-9.30	B 13	J. Roche
<b>FIFTH YEAR :</b>					
	Garage Practice or ... ..	Tuesday	9.30-12.30	C 15	R. J. Dowling
	Workshop Practice ... ..	Tuesday	9.30-12.30	D 8	S. Guirke
	Motor Engineering Lecture and Technical Drawing ... ..	Tuesday	2.00-5.00	B 15	—
10	Heat and Heat Engines ... ..	Friday	7.00-8.30	A 11	J. McCabe
11	Applied Mechanics ... ..	Friday	8.30-10.00	A 5	E. P. Dunne
90	Machine Drawing ... ..	Tuesday	7.30-9.30	B 11	B. E. Fee

## PART-TIME DAY AND EVENING CLASSES

### Apprentice Motor Mechanics—Course B

Class No.	Subject	Day	Hour	Room	Teacher
<b>FIRST YEAR :</b>					
	Garage Practice or ... ..	Friday	2.00-5.00	C 15	R. J. Dowling
	Workshop Practice ... ..	Friday	2.00-5.00	D 8	—
152	Motor Engineering, Lecture	Thursday	7.00-8.30	B 15	T. Giblin
153	Electricity ... ..	Thursday	8.30-10.00	A 6	J. Tighe
	Garage Practice or ... ..	Friday	9.30-12.30	C 15	—
	Workshop Practice ... ..	Friday	9.30-12.30	D 8	T. Giblin
154	Motor Engineering, Lecture	Thursday	8.30-10.00	B 15	T. Giblin
155	Electricity ... ..	Thursday	7.00-8.30	A 6	J. Tighe
<b>SECOND YEAR :</b>					
	Garage Practice or ... ..	Monday	9.30-12.30	C 15	R. J. Dowling
	Workshop Practice ... ..	Monday	9.30-12.30	D 8	—
158	Motor Engineering, Lecture	Monday	8.30-10.00	B 15	T. Giblin
159	Electricity ... ..	Monday	7.30-8.30	A 6	J. Tighe
	Garage Practice or ... ..	Monday	9.30-12.30	C 15	R. J. Dowling
	Workshop Practice ... ..	Monday	9.30-12.30	D 8	—
158	Motor Engineering, Lecture	Monday	8.30-10.00	B 15	T. Giblin
159	Electricity ... ..	Monday	7.00-8.30	A 6	J. Tighe
	Garage Practice or ... ..	Monday	9.30-12.30	C 15	T. Giblin
	Workshop Practice ... ..	Monday	9.30-12.30	D 8	S. Guirke
160	Motor Engineering, Lecture	Monday	7.00-8.30	B 15	T. Giblin
161	Electricity ... ..	Monday	8.30-10.00	A 6	J. Tighe
	Garage Practice or ... ..	Friday	2.00-5.00	C 15	R. J. Dowling
	Workshop Practice ... ..	Friday	2.00-5.00	D 8	—
160	Motor Engineering, Lecture	Monday	7.00-8.30	B 15	T. Giblin
161	Electricity ... ..	Monday	8.30-10.00	A 6	J. Tighe



## Apprentice Motor Mechanics—Course B (continued)

Class No.	Subject	Day	Hour	Room	Teacher
THIRD YEAR :					
	Garage Practice or ... ..	Wednesday	2.00-5.00	C 15	R. J. Dowling
	Workshop Practice ... ..	Wednesday	2.00-5.00	D 8	T. Giblin
164	Motor Engineering Lecture ...	Tuesday	7.30-9.30	B 15	J. N. Brooks
165	Automobile Electricity ... ..	Wednesday	7.00-8.30	A 6	J. Bryan
	Garage Practice or ... ..	Thursday	9.30-12.30	C 15	R. J. Dowling
	Workshop Practice ... ..	Thursday	9.30-12.30	D 8	S. Guirke
164	Motor Engineering Lecture ...	Tuesday	7.30-9.30	B 15	J. N. Brooks
165	Automobile Electricity ... ..	Wednesday	7.00-8.30	A 6	J. Bryan
	Garage Practice or ... ..	Thursday	2.00-5.00	C 15	R. J. Dowling
	Workshop Practice ... ..	Thursday	2.00-5.00	D 8	S. Guirke
164	Motor Engineering Lecture ...	Tuesday	7.30-9.30	B 15	J. N. Brooks
165	Automobile Electricity ... ..	Wednesday	7.00-8.30	A 6	J. Bryan
	Garage Practice or ... ..	Thursday	2.00-5.00	C 15	R. J. Dowling
	Workshop Practice ... ..	Thursday	2.00-5.00	D 8	S. Guirke
164	Motor Engineering Lecture ...	Tuesday	7.30-9.30	B 15	J. N. Brooks
165	Automobile Electricity ... ..	Wednesday	7.00-8.30	A 6	J. Bryan
FOURTH YEAR :					
	Garage Practice or ... ..	Wednesday	9.30-12.30	C 15	R. J. Dowling
	Workshop Practice ... ..	Wednesday	9.30-12.30	D 8	T. Giblin
168	Motor Engineering Lecture ...	Wednesday	7.30-9.30	B 15	J. N. Brooks
169	Automobile Electricity ... ..	Friday	7.00-8.30	A 6	J. Bryan
	Garage Practice or ... ..	Wednesday	9.30-12.30	C 15	R. J. Dowling
	Workshop Practice ... ..	Wednesday	9.30-12.30	D 8	T. Giblin
168	Motor Engineering Lecture ...	Wednesday	7.30-9.30	B 15	J. N. Brooks
169	Automobile Electricity ... ..	Friday	7.00-8.30	A 6	J. Bryan
	Garage Practice or ... ..	Wednesday	2.00-5.00	C 15	R. J. Dowling
	Workshop Practice ... ..	Wednesday	2.00-5.00	D 8	T. Giblin
168	Motor Engineering Lecture ...	Wednesday	7.30-9.30	B 15	J. N. Brooks
169	Automobile Electricity ... ..	Friday	7.00-8.30	A 6	J. Bryan
FIFTH YEAR :					
	Garage Practice or ... ..	Tuesday	9.30-12.30	C 15	R. J. Dowling
	Workshop Practice ... ..	Tuesday	9.30-12.30	D 8	S. Guirke
	Garage Practice or ... ..	Tuesday	2.00-5.00	C 15	S. Guirke
	Workshop Practice ... ..	Tuesday	2.00-5.00	D 8	T. Giblin
172	Motor Engineering Lecture ...	Friday	7.00-10.00	B 15	J. N. Brooks
	Garage Practice or ... ..	Tuesday	2.00-5.00	C 15	S. Guirke
	Workshop Practice ... ..	Tuesday	2.00-5.00	D 8	T. Giblin
172	Motor Engineering Lecture ...	Friday	7.00-10.00	B 15	J. N. Brooks