

1965

Engineering: Courses and Timetables Session 1965-66

City of Dublin Vocational Education Committee

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CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE

DEPARTMENT OF
ENGINEERING

COLLEGE OF TECHNOLOGY
BOLTON STREET, DUBLIN 1



Courses and Timetables

SESSION 1965-66

CALENDAR—SESSION 1965-66

- 1965—SEPT. 1 **Wednesday** Enrolment commences for Preliminary and Diploma Courses in Engineering; Part-time Day Engineering Courses; Part-time Day Courses for Trade Apprentices.
- 7 **Tuesday** - Engineering "Sandwich" Courses resume work.
- 13 **Monday** - Part-time Day Engineering and Trade Apprentice Courses, Technicians Preliminary Engineering and Draughtsmanship Courses commence work.
- 20 **Monday** - Enrolment commences for Evening Courses; Diploma and Pre-professional Courses in Engineering commence work.
- 27 **Monday** - Evening Courses commence work.
- OCT. 20 **Wednesday** Votive Mass—All Day Classes closed.
- 29 **Friday** - All Day Classes closed.
- NOV. 1 **Monday** - *All Saints' Day*. All Classes closed.
- DEC. 8 **Wednesday** *Feast of the Immaculate Conception*. All Classes closed.
- 22 **Wednesday** Final Class Meetings before Christmas Vacation.
- 1966—JAN. 10 **Monday** - All Classes resume work after the Christmas Vacation.
- MAR. 17 **Thursday** - *St. Patrick's Day*. All Classes closed.
- 18 **Friday** - All Day Classes closed.
- APR. 5 **Tuesday** - Final Class Meetings before Easter Vacation. All Evening Classes close, except where otherwise arranged.
- 18 **Monday** - All Day Classes resume after Easter Vacation.
- MAY 19 **Thursday** - *Ascension Day*. All Classes closed.
- 27 **Friday** - Final Class Meetings of Diploma Engineering Course.
- 30 **Monday** - *Whit Monday*. All Classes closed.
- JUNE 9 **Thursday** - *Feast of Corpus Christi*. All Classes closed.
- 30 **Thursday** - Summer Term closes, except where otherwise arranged.

COLLEGE OF TECHNOLOGY

Principal:

DONAL F. O'DWYER, B.ARCH., F.R.I.A.I.

Vice-Principal:

JOHN D. BARRY, M.SC., B.E., M.I.MECH.E., M.I.C.E.I.

Secretary/Registrar:

LIAM O DULACHAIN, F.C.P.A., F.I.C.A.

Address: Bolton Street, Dublin 1. Telephone: 49913-8.

ENGINEERING DEPARTMENT

Head of Department:

THE VICE-PRINCIPAL

Assistant Head of Department:

G. L. LATCHFORD, B.E., B.SC.

Departmental Assistant (Technology):

D. FITZGIBBON, B.E.

Departmental Assistant (Production Engineering):

Vacant.

Head of Motor Engineering Division:

J. GUIRKE, A.M.I.M.I., MAN.INSTR.CERT. (HONS.)

Assistant Head of Motor Engineering Division:

R. J. DOWLING, A.M.I.M.I.

Head of Aeronautical Engineering Division:

T. A. MCINERNEY, A.M.S.L.A.E.,

Dept. of Transport & Power
A, C, D and X Licences

Senior Instructor, Welding:

J. BOLTON, A.M.INST.W.

Head of Science Division:

J. A. NUNAN, B.SC., H.DIP.ED.

Departmental Assistant—Trades:

T. MCCARTHY, MAN.INSTR.CERT.

WHOLE-TIME DAY COURSES

DIPLOMA COURSE

MECHANICAL AND PRODUCTION ENGINEERING

Course D/42 (A)

This is a four-year Course designed to meet the examination requirements of the Professional Engineering Institution for Corporate Membership.

Entrance requirements:—

- (1) Leaving Certificate with honours in English, Mathematics, Physics and/or Applied Mathematics and two other subjects,
- or
- (2) G.C.E. "O" Level in the subjects listed in (1),
- or
- (3) Equivalent qualification.

Fee—£35 per session.

FIRST YEAR:

Subject	Hours per Week
Mathematics and Applied Mathematics	9
Physics	7
Chemistry	3
Engineering Drawing	4
Practical Engineering	3
Philosophy	1
Tutorials	4
German	1

SECOND YEAR:

Subject	Hours per Week
Mathematics	3
Applied Mechanics	3
Engineering Drawing	4
Principles of Electricity	4
Physics and Chemistry	5
Workshop Technology	5
German	1
Engineering Economics	1
Philosophy	1
Lab. Practice	3
Tutorials	2

At the end of the second year successful students may opt to follow either Mechanical or Production Engineering.

THIRD YEAR:

Subject	Hours per Week
Strength of Materials	2
Theory of Machines	2
Thermodynamics	2
Electrotech. and Controls	3
Engineering Administration	2
Maths. and Statistics	2
Metallurgy	1
Metrology	1
Civil Engineering	1
German	1
Philosophy	1
Tutorials	3

Options: Mechanical Engineering

Mechanics of Fluids	2
Structures	2
Properties of Materials	1
Mechanical Engineering Design	3
Mechanical Engineering Lab.	3

Options: Production Engineering

Design for Production	3
Machine Tool Design	3
Production Processes	2
Production Engineering Lab.	3

FOURTH YEAR :

Subject	Hours per Week
Strength of Materials	2
Metallurgy	1
Metrology	1
Electrotech. and Controls	3
Mathematics and Statistics	2
Engineering Administration	2
Philosophy	1
Tutorials	3
Project	3
Options : Mechanical Engineering	
Theory of Machines	2
Thermodynamics	2
Mechanics of Fluids	2
Mechanical Engineering Design	2
Properties of Materials	1
Structural Design	2
Mechanical Engineering Laboratory	3
Options : Production Engineering	
Production Processes	2
Machine Tool Design	3
Design for Production	3
Production Management	3
Production Engineering Laboratory	3

Notes : (1) No student will be admitted to the Second Year of the Course unless he has passed the College Examination at the end of the First Year and, in addition, has passed, or has been exempted from, all examinations required for student membership of the appropriate Engineering Institution.

(2) No student will be admitted to the Third and Fourth Years of the Course unless he has passed the College Examination of the previous year. Mechanical Engineering students must also pass the Joint Part I Examination before being admitted to the Third Year Mechanical.

(3) Students must satisfy the College that they have had suitable practical training in industry during the summer vacation period at the end of the First, Second and Third Years of the Course.

THE ATTENTION OF STUDENTS in all years of the Course is directed to the following: A Pass in the College Examinations will be awarded only where students have an adequate attendance record at all classes and a satisfactory year's work assessment, in addition to satisfactory answering at the College Examination papers, practicals and orals.

PRE-PROFESSIONAL ENGINEERING COURSE

Course D/40

This is a one-year whole-time day Course which prepares students to take the General Certificate of Education (G.C.E.) "A" Level in Mathematics, Applied Mathematics and Physics, and provides them with a suitable basic education for entry to the Diploma Course in Engineering.

Entrance standard: Leaving Certificate Hons., or G.C.E. "O" Level.

Fee—£35 per session.

Subject	Hours per Week
Mathematics	6
Applied Mathematics	3
Physics	7
Chemistry	3
Engineering Drawing	4
English	2
Workshop Practice	3
Social Science	1
Physical Training	1
Tutorials	2

PRELIMINARY ENGINEERING COURSE

Course D/41

This is a one year whole-time day Course which prepares students to take the G.C.E. "O" Level in English, Mathematics, Chemistry, Applied Mathematics, Physics and Drawing.

The entrance standard is Leaving Certificate or equivalent.

Fee—£10 per session.

Subject	Hours per Week
Mathematics	5
Applied Mathematics	4
English	3
Physics	5
Chemistry	5
Engineering Drawing	5
Workshop Practice	3
Social Science	1
Physical Training	1

AIRCRAFT TECHNICIANS

Course D/45

This is a four year "Sandwich" Course to train aircraft technicians for the Aircraft Mechanics' Licences of the Department of Transport and Power. Students must be employed in the Aircraft Industry. They attend the College from October to May, inclusive, and return to industry for the remainder of the year.

Students must have at least the Day Vocational Group Certificate of the Department of Education (with honours) or the Intermediate Certificate (with honours).

Subject	Hours of Instruction per Week		
	1st Year	2nd Year	3rd Year
Physics	3	—	—
Mechanics	3	2	2
Mathematics	3	2	2
Drawing	4	4	3
Chemistry	1	—	—
Aero Laboratory	4	5	6
Workshop Technology	2	4	4
Workshops	10	11	11
English and Report Writing	2	2	2
Religious Instruction	1	1	1
Physical Training	1	1	1
Heat and Heat Engines	—	2	—
Materials and Metallurgy	—	—	2
French	1	1	1

ENGINEERING DRAUGHTSMANSHIP

Course D/43

This is a three-year Course (1st year whole-time and 2 years part-time) to be taken by students who have reached Leaving Certificate standard or equivalent and who are seeking training for positions as engineering draughtsmen.

Students must pass an Intermediate examination at the end of the first year before being admitted to the second year. The 2nd and 3rd years are conducted on a part-time basis at the end of which students who are receiving approved training in industry or in practice can qualify as

- Mechanical Engineering Draughtsmen,
- Civil Engineering Draughtsmen,
- Heating and Ventilating Engineering Draughtsmen.

The fee for the Course is £10 for first year and £7 10s. 0d. for second and third years.

FIRST YEAR (Whole-time) :

Subject	Hours per Week
Mathematics	4
Mechanics	3
Applied Physics	6
Elementary Surveying	3
General Studies	2
Draughtsmanship	6
Workshop Theory and Practice	4
Tutorials	2
Philosophy	1
Physical Training	1

SECOND YEAR :

Day Subjects	Hours per Week		
	Mechanical	Civil	Heating and Vent.
Mathematics	2	2	2
Applied Mechanics	2	2	2
Machine Design	3	—	—
Civil Engineering Design	—	3	—
Heating, Drawing and Design	—	—	3

THIRD YEAR :

Day Subjects	Hours per Week		
	Mechanical	Civil	Heating and Vent.
Machine Design	3	—	—
Strength of Materials	1½	1½	—
Metallurgy and Processes	1½	—	—
Civil Engineering Design	—	3	—
Hydraulics	—	1½	—
Boiler House Practice	—	—	3
Drawing and Design	—	—	3
Engineering Administration	1	1	1

Students are also expected to take appropriate evening classes. See Course E/43 for details.

ENGINEERING APPRENTICES

SANDWICH COURSE

Course D/46 (A)

This is an industry based Sandwich Course for Mechanical Engineering Apprentices who are prepared for the Trade and Technological Certificate Examinations in Mechanical Engineering of the Department of Education.

Subject	Hours of Instruction per Week			
	1st Year	2nd Year	3rd Year	4th Year
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	5	5	5	5
Powerhouse Practice	1½	1½	1½	1½
Workshop Practice	8	8	8	8
Physical Training	1	1	1	1
English	1	1	1	1
Religious Instruction	1	1	1	1

Note: The Second and Third Years attend during the term September to December, and the First and Fourth Years during the term January to March.

TRAINEE DRAUGHTSMEN

SANDWICH COURSE

Course D/47

This is an industry based Sandwich Course for trainee draughtsmen who are prepared for the Technological Certificate Examinations in Mechanical Engineering.

Subject	Hours per Week	
	1st Year	2nd Year
Mathematics	5	5
Applied Mathematics	3	3
Heat and Heat Engines	3	3
Principles of Electricity	3	3
Workshop Technology	3	3
Engineering Drawing	5	5
Engineering Design	5	5
English and Report Writing	2	2
Religious Instruction	1	1
Physical Training	1	1
Power House Practice	1½	1½

Note: The First Year attends from September to December and the Second Year attends from January to March.

PART-TIME DAY COURSES

COURSE FOR ENGINEERING APPRENTICES

Course D/46B: 1A, 1B and 1C: First Year; 2A, 2B: Second Year

Subject	Hours per Week
Mathematics	1½
Mechanics	1½
Heat	1½
Machine Drawing	1½
English	1

Note: Students are expected to sit for the Department of Education, Mechanical Engineering Technological Certificate, Elementary Stage, at the end of their Second Year.

COURSE IN MECHANICAL ENGINEERING

Course D/42 (B) : First Year

Subject	Hours per Week
Heat	2
Applied Mechanics	3
Light and Sound	2
Principles of Electricity	3
Mathematics	3
Machine Drawing	3*
English	1

* Evening Class.

Notes: (1) Students requiring additional Evening Classes should apply to the Head of the Engineering Dept. at the beginning of the session.

(2) The Head of the Engineering Dept. may direct that those students who are considered to need them shall attend additional Evening Classes.

Course D/42 (B) : First Year "A"

Subject	Hours per Week
Mathematics	5
Applied Mathematics	2
Physics	7

Notes: (1) First Year "A" is designed to enable students to meet the requirements for Student Membership of the Institution of Mechanical Engineers.

(2) The Head of the Engineering Dept. may direct that those students who are considered to need them shall attend additional evening classes.

Course D/42 (B) : Second Year

Subject	Hours per Week
Heat and Heat Engines	2
Applied Mechanics	3
Light and Sound	2
Principles of Electricity	3
Mathematics	4
Machine Drawing	3*

* Evening Class.

Notes: (1) Students requiring additional Evening Classes should apply to the Head of the Engineering Dept. at the beginning of the session.

(2) The Head of the Engineering Dept. may direct that those students who are considered to need them shall attend additional Evening Classes.

Course D/42 (B) : Third Year

Subject	Hours per Week
Mathematics	1½*
Theory of Machines	3
Applied Thermodynamics	3
Electrotechnology	3
Strength of Materials	5
Machine Construction and Design	3*
Industrial Administration	3*

* Evening Class.

Course D/42 (B) : Fourth Year

Subject	Hours per Week
Mathematics	1½*
Theory of Machines	3
Applied Thermodynamics	3
Electrotechnology	3
Strength of Materials	5
Machine Design	3*
Industrial Administration	3*

* Evening Class.

Students attending this Course are expected to sit for the Dept. of Education Examinations in Mechanical Engineering and Mathematics as follows:—

At the end of the First Year	Intermediate Stage
At the end of the Second Year	Advanced Stage
At the end of the Fourth Year	Higher Technological Stage

Classes other than those marked with an asterisk (*) require attendance for two full days per week.

TRADE COURSES—DAY

FITTING AND TURNING—Course D/141

Students are required to have completed First Year of Course D/46B before entering the Second Year below.

Subject	Hours of Instruction per Week			
	2nd Year	3rd Year	4th Year	5th Year
Workshop Practice	3	3	2	—
Toolroom Work	—	—	1	3
Workshop Technology	1½	1½	1½	1½
Technical Drawing	1½	1½	—	—
Drawing and Tool Design	—	—	1½	1½
General Studies	1	1	1	1

At the end of the Second Year students who pass the Junior Trade Examination will be selected to follow the Syllabus of the City and Guilds of London Institute.

At the end of the Second Year all students must sit the Junior Trade Examinations of the Dept. of Education. Selected students will then be offered classes in toolroom practice in preparation for the examination of the City and Guilds of London Institute, Mechanical Engineering Craft Practice 193. Part I of this examination will be taken at the end of the 3rd Year and Part II at the end of the 5th Year.

The fee for the Course is £3 10s. 0d. per session.

STRUCTURAL STEELWORK—Course D/150

(LINEN HALL)

Subject	Hours of Instruction per Week
Trade Practice	3
Materials and Processes	2
Calculations	1
Drawing and Developments	2
Religious Knowledge	½

Students attend one day (6½ hours) and one evening (2 hours) per week.

METAL PLATE WORK—Course D/149

Subject	Hours of Instruction per Week	
	2nd Year	3rd Year
Metal Plate Work Practical	3	3
Metal Plate Theory and Drawing	3	3
General Studies	1	1

WELDING—Course D/143

OXY-ACETYLENE AND ELECTRIC ARC

Subject	Hours of Instruction per Week				
	1st Year	2nd Year	3rd Year	4th Year	5th Year
Trade Practice	5	5	4½	4½	4½
Welding Science & Technology	1½	1½	2	2	2

To be admitted to the Course, students must have a standard of education equivalent to the Day Group Certificate.

HEATING ENGINEERING FITTERS—Course D/151

Subject	Hours of Instruction per Week	
	1st Year	2nd Year
Trade Practice	3½	3½
Trade Theory	3	3

Entrance standard: Group Certificate or equivalent.

HEATING AND VENTILATING ENGINEERING TECHNICIANS Course D/152

Subject	Hours of Instruction per Week		
	1st Year	2nd Year	3rd Year
H. and V. Drawing and Practice ...	4½	3½	3½
Science	2	2	2
Management	—	1	1

This Course is intended for those who have satisfactorily completed Course D/151 and who aspire to be potential foremen.

MOTOR MECHANICS WORK—Course D/142 A and B

Course D/142A is for apprentices released for one full day per week.

Day Subjects	Hours of Instruction per Week				
	1st Year	2nd Year	3rd Year	4th Year	5th Year
Garage Practice or Workshop Practice	3	3	3	3	—
Engine Testing	—	—	—	—	3
Motor Engineering (Lecture)	1½	1½	3	3	3
Machine Drawing	1½	1½	—	—	—

Evening Subjects

Day Subjects	1st Year	2nd Year	3rd Year	4th Year	5th Year
Engineering Science ...	3	3	3	—	—
Automobile Electricity ...	1½	1½	1½	2	2
Heat Engines and Mechanics	—	—	—	3	3
Garage Organisation and Management	—	—	—	2	2

Course D/142B is for apprentices released for one half-day per week. The subjects are as in Course D/142A above, but students attend on at least two evenings per week from 7.0–10.0 p.m.

WHOLETIME PRELIMINARY MOTOR ENGINEERING COURSE—D/142C

(One month (September) 30 hours per Week)

Subject	1st Week Hours	2nd Week Hours	3rd Week Hours	4th Week Hours
Workshop Practice	10	10	10	10
Engineering Science	9	9	9	9
Mechanical Drawing	4	4	4	4
Mathematics	3	3	3	3
English	2	2	2	2
Philosophy	1	1	1	1
Physical Training	1	1	1	1

EVENING COURSES

G.C.E.—Course E/40

This is a Preparatory Course for student membership of the Professional Engineering Institutions.

Minimum fee, £5 (up to 4 subjects); 15/- per additional subject.

ORDINARY LEVEL:

Class No.	Subject	Day	Hour	Room	Teacher
1A	English A	Monday	7.00–8.30	A 20	P. J. Allen
2	Engineering Drawing ...	Monday	7.00–10.0	A 1	J. Roche
3A	Mathematics A	Tuesday	7.00–10.0	B 10	W. J. O'Doherty
3B	Mathematics B	Tuesday	7.00–10.0	B 13	—
4A	Physics A	Wed.	7.00–10.0	A 20	—
4B	Physics B	Wed.	7.00–10.0	A 22	M. McSweeney
5	Geology	Thursday	7.00–10.0	B 13	—
6	Practical Chemistry ...	Thursday	7.00–10.0	A 23	R. Farren
7	Chemistry Theory	Friday	7.00–8.30	B 12	R. Farren
1B	English B	Friday	8.30–10.0	B 12	P. J. Allen
409	Surveying	Friday	7.30–10.0	A 3	M. Walsh

ADVANCED LEVEL:

8	Practical Physics	Tuesday	7.00–10.0	A 20	D. O'Sullivan
9	Physics	Wed.	7.00–10.0	B 10	D. O'Sullivan
10	Mathematics	Friday	7.00–10.0	A 22	D. O'Sullivan

MECHANICAL ENGINEERING COURSE

Course E/41A

SECOND YEAR:

This year is intended to prepare students for the Joint Part I Examinations.

16	Engineering Drawing ...	Wed.	7.00–10.0	A 2	N. Gillespie
17	Heat, Light and Sound ...	Thursday	8.30–10.0	A 20	L. Healy
18	Mechanics	Thursday	7.00–8.30	A 22	P. Brunkard
19	Mathematics	Tuesday	7.00–8.30	A 21	—
20	Principles of Electricity ...	Tuesday	8.30–10.0	A 19	—

THIRD & FOURTH YEARS:

This Course is designed to prepare students for selected subjects in the Part II Examination.

25	Theory of Machines	Tuesday	7.00–10.0	A 7	N. Gillespie
26	Thermodynamics	Wed.	7.00–10.0	C 1	F. Fitzgibbon
27	Strength of Materials ...	Thursday	7.00–10.0	B 10	J. Daly
28	Mechanics of Fluids or ...	Tuesday	7.00–10.0	C 1	—
29	Electrotechnology	Friday	7.00–10.0	A 19	—

FIFTH YEAR:

This year is intended to prepare students for the Part III Examinations.

67A	Metallurgy	Wed.	8.30–10.0	A 23	F. Wight
34	Mathematics and Statistics	Wed.	7.00–8.30	A 21	J. Broderick
35	Engineering Administration	Thursday	7.00–10.0	A 7	P. MacLoughlin
36	Engineering Design	Tuesday	7.00–10.0	A 2	J. Hoey

CIVIL ENGINEERING COURSE

Course E/41B

FIRST YEAR:

2	Engineering Drawing ...	Monday	7.00-10.0	A 1	J. Roche
12	Heat, Light and Sound ...	Thursday	7.00-8.30	A 20	L. Healy
13	Mechanics	Thursday	8.30-10.0	A 22	P. Brunkard
14	Mathematics	Tuesday	8.30-10.0	A 21	---
15	Principles of Electricity ...	Tuesday	7.00-8.30	A 19	---

SECOND YEAR:

16	Engineering Drawing ...	Wed.	7.00-10.0	A 2	N. Gillespie
17	Heat, Light and Sound ...	Thursday	8.30-10.0	A 20	L. Healy
18	Mechanics	Thursday	7.00-8.30	A 22	P. Brunkard
19	Mathematics	Tuesday	7.00-8.30	A 21	D. Reid
20	Principles of Electricity ...	Tuesday	8.30-10.0	A 19	---
21	Strength of Materials ...	Friday	8.30-10.0	B 9	J. Daly
22	Theory of Structures ...	Friday	7.00-8.30	B 9	J. Daly

THIRD & FOURTH YEARS:

27	Strength of Materials ...	Thursday	7.00-10.0	B 10	J. Daly
28	Mechanics of Fluids ...	Tuesday	7.00-10.0	C 1	---
30	Engineering Materials ...	Tuesday	8.30-10.0	A 23	J. Harrington
31	Surveying and Levelling ...	Wed.	8.30-10.0	B 9	---
32	Structural Engineering ...	Thursday	7.00-10.0	A 2	S. Kenny

FIFTH YEAR:

34	Mathematics and Statistics	Wed.	7.00-8.30	A 21	J. Broderick
37	Drawing Specifications and Quantities	Wed.	8.30-10.0	A 19	H. Clifton
38	Municipal Engineering ...	Tuesday	7.00-10.0	C 1	---
39	Concrete Plain and Reinforced	Friday	7.00-10.0	D 1	H. Clifton
40	Strength of Materials ...	Monday	7.00-10.00	A 2	J. Daly

STRUCTURAL ENGINEERING COURSE

Course E/41C

For Graduate Membership of the Institution of Structural Engineers

FIRST YEAR:

13	Applied Mechanics	Thursday	8.30-10.0	A 22	P. Brunkard
14	Mathematics	Tuesday	8.30-10.0	A 21	---
41	Strength of Materials ...	Thursday	7.00-8.30	D 1	J. Harrington
42	Theory of Structures ...	Tuesday	7.00-8.30	D 1	J. Harrington
409	Surveying and Levelling ...	Monday	7.30-10.0	A 3	---

SECOND YEAR:

19	Mathematics	Tuesday	7.00-8.30	A 21	---
21	Strength of Materials ...	Friday	8.30-10.0	B 9	J. Daly
22	Theory of Structures ...	Friday	7.00-8.30	B 9	J. Daly
30	Engineering Materials ...	Tuesday	8.30-10.0	A 23	J. Harrington
416	Surveying and Levelling ...	Wed.	7.30-10.0	A 3	---

HEATING AND VENTILATING ENGINEERING

Course E/41D

THIRD & FOURTH YEARS:

For students who have completed the Joint Part I of the Professional Engineering Institutions.

Class No.	Subject	Day	Hour	Room	Teacher
26	Thermodynamics	Wed.	7.00-10.0	C 1	P. Dunphy
28	Mechanics of Fluids ...	Tuesday	7.00-10.0	C 1	---
40	Heating, Combustion and Air Conditioning	Monday	7.00-10.0	C 1	---

TECHNICIAN COURSES

CERTIFICATE ENGINEERING COURSE

Course E/42

ELEMENTARY STAGE

Class No.	Subject	Day	Hour	Room	Teacher
FIRST YEAR:					
50	Machine Drawing	Thurs.	7.00-10.00	A 1	L. Wynne R Daly
51/1	Science	Tuesday	7.00-10.00	A 22	E. P. Dunne
51/2	Science	Friday	7.00-8.00	A 20	E. P. Dunne
52	Mathematics	Friday	8.00-10.00	A 6	J. McLoughlin
SECOND YEAR:					
53	Machine Drawing	Tuesday	7.00-10.00	B 16	L. Wynne J. Lawless
54/1	Science	Monday	8.00-10.00	A 21	E. P. Dunne
54/2	Science	Friday	8.00-10.00	A 20	E. P. Dunne
55/1	Mathematics	Monday	7.00-8.00	A 21	J. McLoughlin
55/2	Mathematics	Friday	7.00-8.00	A 6	J. McLoughlin

INTERMEDIATE STAGE

Class No.	Subject	Day	Hour	Room	Teacher
THIRD YEAR:					
56	Machine Drawing & Construction	Wed.	7.00-10.00	A 1	J. Roche
57	Heat and Heat Engines	Friday	7.00-8.30	A 21	F. Fitzgibbon
58	Applied Mechanics	Friday	8.30-10.00	A 26	A. Whelan
59	Mathematics	Monday	8.00-10.00	A 20	W. J. O'Doherty

ADVANCED STAGE

Class No.	Subject	Day	Hour	Room	Teacher
FOURTH YEAR:					
60	Drawing Office Procedure	Thurs.	7.00-8.30	A 2	J. Hoey
61	Machine Construction & Design	Thurs.	8.30-10.00	A 2	J. Hoey
62	Heat Engines	Friday	8.30-10.00	A 21	F. Fitzgibbon
63	Applied Mechanics	Friday	7.00-8.30	A 26	A. Whelan
64	Mathematics	Wed.	7.00-8.30	A 21	J. Broderick

Higher Technological Stage

FIFTH & SIXTH YEARS:

Class No.	Subject	Day	Hour	Room	Teacher
25	Theory of Machines	Tuesday	7.00-10.0	A 7	N. Gillespie
26	Thermodynamics	Wed.	7.00-10.0	C 1	F. Fitzgibbon
27	Strength of Materials	Thursday	7.00-10.0	B 10	J. Daly
28	Mechanics of Fluids	Tuesday	7.00-10.0	C 1	—
36	Engineering Design	Friday	7.00-10.0	A 2	J. Hoey

NOTE: MARINE ENGINEERS' CERTIFICATE (PART A): 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.

ENGINEERING DRAUGHTSMANSHIP

Course E/43

This Course is for those who are receiving approved training as engineering draughtsmen and who have passed either (a) the Intermediate Stage of the Technological Certificate of the Dept. of Education in Machine Drawing, Mathematics and one other subject, or (b) the G.C.E. "O" Level in Mathematics, Drawing and one other subject.

The Course consists of three sections—Mechanical, Civil, and Heating and Ventilating.

The fee is £5 per session.

FIRST YEAR—MECHANICAL:

Class No.	Subject	Day	Hour	Room	Teacher
57	Heat and Heat Engines	Friday	7.00-8.30	A 21	F. Fitzgibbon
58	Applied Mechanics	Friday	8.30-10.0	A 26	A. Whelan
59	Mathematics	Monday	8.00-10.0	A 20	W. J. O'Doherty
60/61	Machine Design	Thursday	7.00-10.0	A 2	J. Hoey
30	Engineering Materials	Tuesday	8.30-10.0	A 23	J. Harrington
15	Electricity	Tuesday	7.00-8.30	A 19	—

SECOND YEAR—MECHANICAL:

Class No.	Subject	Day	Hour	Room	Teacher
62	Heat Engines	Friday	8.30-10.0	A 21	F. Fitzgibbon
63	Applied Mechanics	Friday	7.00-8.30	A 26	A. Whelan
67A	Metallurgy	Wed.	8.30-10.0	A 23	F. Wight
43	Plant Maintenance	Wed.	7.00-8.30	B 16	—
36	Engineering Design	Tuesday	7.00-10.0	A 2	—

Students following the above Course may take the Advanced Stage Technological Certificate of the Department of Education and/or Part I of the Mechanical Engineering, Technician Course (293) of the City and Guilds of London Institute.

FIRST YEAR—CIVIL:

Class No.	Subject	Day	Hour	Room	Teacher
30	Engineering Materials	Tuesday	8.30-10.0	A 23	J. Harrington
402A/1	Building Construction	Tuesday	7.00-8.30	A 11	W. Gilligan
44	Mechanics	Monday	7.00-8.00	A 20	E. P. Dunne
59	Mathematics	Monday	8.00-10.0	A 20	W. J. O'Doherty
5	Geology	Thursday	7.00-10.0	B 13	—
409	Surveying	Friday	7.30-10.0	A 3	M. Walsh

SECOND YEAR—CIVIL:

Class No.	Subject	Day	Hour	Room	Teacher
21	Strength of Materials	Friday	8.30-10.0	B 9	J. Daly
22	Theory of Structures	Friday	7.00-8.30	B 9	J. Daly
45	Civil Engineering	Monday	7.00-10.0	A 2	—
28	Mechanics of Fluids	Tuesday	7.00-10.0	C 1	—

Students taking the above Course may sit for the Department of Education Technician Certificate in Civil Engineering.

FIRST YEAR—HEATING AND VENTILATING:

57	Heat and Heat Engines ...	Friday	7.00-8.30	A 21	F. Fitzgibbon
49	Heat Transfer and Fluid Flow ...	Friday	8.30-10.0	C 1	—
20	Electricity ...	Tuesday	8.30-10.0	A 19	—
45	Heating and H.W.S. ...	Wed.	7.00-10.0	C 1	—
413	Building Services I ...	Tuesday	7.00-8.30	A 4	D. Ryan
59	Mathematics ...	Monday	8.00-10.0	A 20	W. J. O'Doherty
44	Mechanics ...	Monday	7.00-8.00	A 20	E. P. Dunne

SECOND YEAR:

43	Plant Maintenance ...	Wed.	7.00-8.30	B 16	—
46	Installation and Testing ...	Wed.	8.30-10.0	B 16	—
421	Building Services II ...	Tuesday	8.30-10.0	A 4	P. Clonan
47	Boiler House Practice ...	Tuesday	7.00-8.30	D 1	—
48	Ventilating and Air Conditioning ...	Thursday	7.00-10.0	C 1	—

Students taking the above Course may sit for the City and Guilds of London Institute Examination for Heating and Ventilating Draughtsmen (259).

AUTOMOBILE ENGINEERING TECHNICIANS

Course E/49

Class No.	Subject	Day	Hour	Room	Teacher
FIRST YEAR:					
110	Physics ...	Tuesday	7.00-8.30	B 10	J. Butler
112	Chemistry ...	Tuesday	8.30-10.0	B 10	J. Butler
114	Mechanics ...	—	7.00-8.30	—	—
120	Mathematics ...	—	8.30-10.0	—	—
116	Engineering Drawing ...	Monday	7.00-10.0	D 30	—
118	English ...	—	7.00-8.30	—	—
123	Motor Engineering (Lecture)	—	8.30-10.0	—	—
SECOND YEAR:					
111	Physics ...	Monday	7.00-8.30	A 26	J. Butler
113	Chemistry ...	Monday	8.30-10.0	A 26	J. Butler
115	Mechanics ...	—	7.00-8.30	—	—
121	Mathematics ...	—	8.30-10.0	—	—
117	Engineering Drawing ...	—	7.00-10.0	—	—
119	English ...	—	8.30-10.0	—	—
124	Motor Engineering (Lecture)	Friday	7.00-8.30	C 24	M. Kelly
THIRD YEAR:					
122	Mathematics ...	Tuesday	8.30-10.0	—	—
135	Engineering Science ...	Wed.	7.00-10.0	A 22	E. P. Dunne
125	Motor Engineering (Lecture)	Tuesday	7.00-8.30	C 24	M. Kelly
138	Principles of Management ...	Thursday	7.30-9.30	C 24	T. Carroll
FOURTH YEAR:					
136	Heat Engines and Applied Mechanics ...	Wed.	7.00-10.0	A 26	J. Butler
126	Motor Engineering (Lecture)	Monday	7.00-10.0	C 24	—
139	Garage Organisation and Management — A, B, C and D ...	Tuesday	7.30-9.30	—	T. Carroll
FIFTH YEAR:					
137	Heat Engines and Applied Mechanics ...	—	7.00-10.0	—	—
127	Motor Engineering (Lecture)	Wed.	7.00-10.0	C 24	—
140	Garage Organisation and Management — A, B, C and D ...	Thursday	7.30-9.30	C 28	T. Foley and others

MACHINE SHOP TECHNICIANS

Course E/44

FIRST YEAR :

Class No.	Subject	Day	Hour	Room	Teacher
66A	Metrology ...	Wed.	7.00-8.30	B 9	H. J. O'Neill
67A	Metallurgy ...	Wed.	8.30-10.0	A 23	F. Wight
68A	Toolroom Practice ...	Thursday	7.00-10.0	B 32	H. J. O'Neill

SECOND YEAR:

66B	Metrology ...	Wed.	8.30-10.0	B 9	H. J. O'Neill
67B	Metallurgy ...	Wed.	7.00-8.30	A 23	F. Wight
68B	Toolroom Practice ...	Thursday	7.00-10.0	B 29	H. J. O'Neill
69	Jig and Tool Design ...	Tuesday	7.00-10.0	B 9	H. J. O'Neill

WELDING TECHNICIANS

Course E/48

Class No.	Subject	Day	Time	Room	Teacher
85	Welding Methods & Applications	Monday	7.30-9.30	B 13	A. H. Porter
86	Specifications, Testing & Inspection	Friday	7.30-9.30	B 13	A. H. Porter

AIRCRAFT MAINTENANCE LICENCE

Course E/46

FIRST YEAR:

Class No.	Subject	Licence Category	Day	Time	Room	Teacher
70/1	Engineering Drawing, Materials & Processes	A & C	Mon.	7.30-9.30	B 16	D. McMahon
70/2	Aero-Engineering ...	A & C	Tues.	7.30-9.30	D 30	E. K. Dempsey
70/3	Aero-Engineering ...	A & C	Thurs.	7.30-9.30	D 30	T. A. McInerney

SECOND YEAR (D/H CHIPMUNK—D/H GIPSY MAJOR):

71/1	Aero-Engineering (Chipmunk)	A & C	Wed.	7.30-9.30	D 3	J. Mangan
71/2	Aero-Engineering (Gypsy Major)	A & C	Fri.	7.30-9.30	D 3	J. Mangan

SECOND YEAR (VICKERS VISCOUNT—ROLLS ROYCE DART):

					Aer Lingus	
72/1	Aero-Engineering ...	A	Mon.	7.30-9.30	Training	B. O'Reilly
72/2	Aero-Engineering ...	A	Thurs.	7.30-9.30	School,	B. O'Reilly
72/3	Aero-Engineering ...	C	Wed.	7.30-9.30	Dublin	A. O'Neill
72/4	Aero-Engineering ...	C	Fri.	7.30-9.30	Airport	A. O'Neill

SECOND YEAR (FOKKER FRIENDSHIP—ROLLS ROYCE DART):

					Aer Lingus	
73/1	Aero-Engineering ...	A	Mon.	7.30-9.30	Training	M. Maxwell
73/2	Aero-Engineering ...	A	Wed.	7.30-9.30	School,	M. McCarthy
73/3	Aero-Engineering ...	C	Wed.	7.30-9.30	Dublin	A. O'Neill
73/4	Aero-Engineering ...	C	Fri.	7.30-9.30	Airport	A. O'Neill

SECOND YEAR (BOEING 720-048—P. & W. ENGINE JT3C-7):

					Aer Lingus	
74/1	Aero-Engineering ...	A	Tues.	7.30-9.30	Training	P. I. Taylor
74/2	Aero-Engineering ...	C	Thurs.	7.30-9.30	School,	D. Brennan
74/3	Aero-Engineering ...	A	Fri.	7.30-9.30	Dublin	P. I. Taylor
74/4	Aero-Engineering ...	C	Wed.	7.30-9.30	Airport	D. Brennan

SECOND YEAR (DOUGLAS D.C.3/P. & W. 1830/92—CARVAIR—P. & W. 2000/11):

75/1	Aero-Engineering ...	A	Mon.	7.30-9.30	D 3	J. Killian
75/2	Aero-Engineering ...	C	Wed.	7.30-9.30	D 30	B. Downey

FIRST YEAR (ELECTRICAL AND INSTRUMENT):

76/1	Aero-Engineering ...	X4	Tues.	7.30-9.30	D 30	S. Hogan
76/2	Aero-Engineering ...	X5	Thurs.	7.30-9.30	D 30	J. Walsh

DIESEL MAINTENANCE

Course E/47

Class No.	Subject	Day	Hour	Room	Teacher
81A	FIRST YEAR—A: Diesel Maintenance—Theory	Wed.	7.00-8.30	B 10	J. McNamara
82A	Diesel Maintenance— Practical	Monday	7.00-10.0	D 21	V. Hand
81B	FIRST YEAR—B: Diesel Maintenance—Theory	Wed.	7.00-8.30	B 10	J. McNamara
82B	Diesel Maintenance— Practical	Tuesday	7.00-10.0	D 21	V. Hand
83A	SECOND YEAR—A: Diesel Maintenance—Theory	Wed.	8.30-10.0	B 10	J. McNamara
84A	Diesel Maintenance— Practical	Thursday	7.00-10.0	D 21	J. McNamara
83B	SECOND YEAR—B: Diesel Maintenance—Theory	Wed.	8.30-10.0	B 10	J. McNamara
84B	Diesel Maintenance— Practical	Fri.	7.00-10.0	D 21	J. McNamara

TRADE COURSES

Fitting and Turning—Course E/141

Class No.	Subject	Day	Hour	Room	Teacher
FIRST YEAR:					
90A	Fitting and Turning—1A ...	Thursday	7.30-9.30	B 33	G. Murphy
91A	Workshop Theory—1A ...	Tuesday	8.35-9.35	B 11	T. Murphy
92A	Workshop Calculations—1A ...	Tuesday	7.30-8.30	B 12	P. Kenny
93AB	Mechanical Drawing—1A ...	Monday	7.30-9.30	A 9	J. Lawless
90B	Fitting and Turning—1B ...	Wed.	7.30-9.30	B 34	P. Deane
91B	Workshop Theory—1B ...	Tuesday	7.30-8.30	B 11	T. Murphy
92B	Workshop Calculations—1B ...	Tuesday	8.35-9.35	B 12	P. Kenny
93AB	Mechanical Drawing—1B ...	Monday	7.30-9.30	A 9	J. Lawless
90C	Fitting and Turning—1C ...	Tuesday	7.30-9.30	B 34	J. Sheils
91C	Workshop Theory—1C ...	Thursday	8.35-9.35	B 11	T. Murphy
92C	Workshop Calculations—1C ...	Thursday	7.30-8.30	B 12	P. Kenny
93CD	Mechanical Drawing—1C ...	Friday	7.30-9.30	A 9	J. Roche
90D	Fitting and Turning—1D ...	Monday	7.30-9.30	B 33	D. McGrath
91D	Workshop Theory—1D ...	Thursday	7.30-8.30	B 11	T. Murphy
92D	Workshop Calculations—1D ...	Thursday	8.35-9.35	B 12	P. Kenny
93CD	Mechanical Drawing—1D ...	Friday	7.30-9.30	A 9	J. Roche
90E	Fitting and Turning—1E ...	Monday	7.30-9.30	B 34	P. Deane
91E	Workshop Theory—1E ...	Friday	7.30-8.30	D 4	B. Glennon
92E	Workshop Calculations—1E ...	Friday	8.30-9.30	D 5	B. Glennon
93EF	Mechanical Drawing—1E ...	Wed.	7.30-9.30	A 9	S. O'Farrell
90F	Fitting and Turning—1F ...	Thursday	7.30-9.30	B 34	P. Farrell
91F	Workshop Theory—1F ...	Friday	8.30-9.30	D 4	B. Glennon
92F	Workshop Calculations—1F ...	Friday	7.30-8.30	D 5	B. Glennon
93EF	Mechanical Drawing—1F ...	Wed.	7.30-9.30	A 9	S. O'Farrell
SECOND YEAR:					
94A	Fitting and Turning—2A ...	Tuesday	7.30-9.30	B 29	P. A. Burke W. Hughes
95A	Workshop Theory—2A ...	Wed.	7.30-8.30	B 11	T. Murphy
96A	Workshop Calculations—2A ...	Wed.	8.35-9.35	B 12	P. Kenny
97AB	Mechanical Drawing—2A ...	Thursday	7.30-9.30	A 9	J. Roche
94B	Fitting and Turning—2B ...	Friday	7.30-9.30	B 33	G. Murphy
95B	Workshop Theory—2B ...	Wed.	8.35-9.35	B 11	T. Murphy
96B	Workshop Calculations—2B ...	Wed.	7.30-8.30	B 12	P. Kenny
97AB	Mechanical Drawing—2B ...	Thursday	7.30-9.30	A 9	J. Roche
94C	Fitting and Turning—2C ...	Monday	7.30-9.30	B 32	W. Hughes
95C	Workshop Theory—2C ...	Wed.	8.35-9.35	D 4	M. Mara
96C	Workshop Calculations—2C ...	Wed.	7.30-8.30	D 5	M. Mara
97CD	Mechanical Drawing—2C ...	Friday	7.30-9.30	A 1	B. E. Fee
94D	Fitting and Turning—2D ...	Monday	7.30-9.30	B 29	J. E. Holland
95D	Workshop Theory—2D ...	Wed.	8.30-9.30	D 4	M. Mara
96D	Workshop Calculations—2D ...	Wed.	7.30-8.30	D 5	M. Mara
97CD	Mechanical Drawing—2D ...	Friday	7.30-9.30	A 1	B. E. Fee J. Lawless

Fitting and Turning—Course E/141—contd.

Class No.	Subject	Day	Hour	Room	Teacher
THIRD YEAR:					
98A	Fitting and Turning ...	Wed.	7.30-9.30	B 32	J. Holland
99AB	Workshop Theory ...	Monday	7.30-8.30	B 11	T. Murphy
100A	Workshop Calculations ...	Monday	8.35-9.35	B 12	P. Kenny
101AB	Machine Drawing ...	Tuesday	7.30-9.30	A 1 or A 11	J. Roche
98B	Fitting and Turning ...	Wed.	7.30-9.30	B 33	C. Dowdall
99BC	Workshop Theory ...	Monday	7.30-8.30	B 11	T. Murphy
100B	Workshop Calculations ...	Monday	8.30-9.30	B 12	P. Kenny
101AC	Machine Drawing ...	Tuesday	7.30-9.30	A 11 or A 1	B. Fee
98C	Fitting and Turning ...	Wed.	7.30-9.30	B 29	G. Murphy
99AC	Workshop Theory ...	Monday	8.30-9.30	B 11	T. Murphy
100C	Workshop Calculations ...	Monday	7.30-8.30	B 12	P. Kenny
101BC	Machine Drawing ...	Tuesday	7.30-9.30	A 1 or A 11	N. Gillespie
FOURTH YEAR:					
102	Fitting and Turning ...	Friday	7.30-10.0	B 32	J. E. Holland
103	Workshop Theory ...	Monday	8.35-9.35	B 9	B. Glennon
and					
104	Workshop Calculations ...	Monday	7.30-8.30	B 9	B. Glennon
105	Machine Drawing ...	Tuesday	7.30-9.30	B 16	S. O'Farrell
*FIFTH YEAR:					

* Students who have completed the Senior Trade Certificate Examination of the Department of Education are eligible for entry to Course No. E/44.

Motor Mechanics' Work—Course E/142

(Advanced Stage)

Class No.	Subject	Day	Hour	Room	Teacher
141A	Garage Practice—Group A	Wed.	7.30-9.30	D 17	T. Giblin
141B	Garage Practice—Group B	Wed.	7.30-9.30	D 6	J. O'Brien
141C	Garage Practice—Group C	Wed.	7.30-9.30	D 21	J. McGauran

Heating Engineering Fitters—Course E/151

Class No.	Subject	Day	Hour	Room	Teacher
FIRST YEAR :					
178	Trade Practice ...	Monday	7.30-9.30	C 30	—
179	Trade Theory ...	Tuesday	7.30-9.30	C 5	—
SECOND YEAR :					
180	Trade Practice ...	Tuesday	7.30-9.30	C 30	—
181	Trade Theory ...	Monday	7.30-9.30	C 33	—

Oxy-Acetylene and Electric Welding—Course E/143

Class No.	Subject	Day	Time	Room	Teacher
FIRST YEAR:					
140A	Oxy-Acetylene and Electric Welding—1A	Monday	7.30-9.30	C 32	J. Quinn
140B	Oxy-Acetylene and Electric Welding—1B	Monday	7.30-9.30	D 28	W. Carroll
141A/B	Welding Theory — A & 1B	Tuesday	7.30-9.30	A 26	N. Mullen
140C	Oxy-Acetylene and Electric Welding—1C	Tuesday	7.30-9.30	C 32	J. Quinn
140D	Oxy-Acetylene and Electric Welding—1D	Tuesday	7.30-9.30	D 28	N. Murray
141C/D	Welding Theory	Monday	7.30-9.30	A 22	N. Mullen
SECOND YEAR:					
142A	Oxy-Acetylene and Electric Welding—2A	Wed	7.30-9.30	C 32	P. Cowley
142B	Oxy-Acetylene and Electric Welding—2B	Wed.	7.30-9.30	B 28	J. Quinn
143B	Welding Theory—2A & 2B	Friday	7.30-9.30	B 9	N. Mullen
THIRD YEAR:					
144	Oxy-Acetylene and Electric Welding	Thursday	7.30-9.30	C 32	P. Cowley
144A	Welding Theory	Wed.	7.30-9.30	A 19	N. Mullen
FOURTH YEAR:					
145	Oxy-Acetylene and Electric Welding	Friday	7.30-9.30	C 32	P. Cowley
145A	Welding Theory	Thursday	7.30-9.30	A 21	N. Mullen

Patternmaking—Course E/144

FIRST YEAR:					
146/1	Patternmaking	Tues., Thur.	7.30-9.30	D 19	---
147/1	Workshop Drawing	Monday	7.30-9.30	D 19	---
SECOND YEAR:					
146/2	Patternmaking	Tues., Thur.	7.30-9.30	D 19	---
147/2	Workshop Drawing	Monday	7.30-9.30	D 19	---
THIRD YEAR:					
146/3	Patternmaking	Tues., Thur.	7.30-9.30	D 19	---
147/3	Workshop Drawing	Monday	7.30-9.30	D 19	---

Foundry Work—Course E/145

FIRST YEAR:					
148	Trade Practice	Thursday	7.30-9.30	LINEN HALL	Mr. Duffy
	Trade Theory	Wed.	7.30-9.30		Mr. Buckley
SECOND YEAR—A:					
	Trade Practice	Wed.	7.30-9.30	LINEN HALL	Mr. Duffy
	Trade Theory	Tuesday	7.30-9.30		Mr. Buckley
SECOND YEAR—B:					
	Trade Practice	Monday	7.30-9.30	LINEN HALL	Mr. Duffy
	Trade Theory	Tuesday	7.30-9.30		Mr. Buckley

Students are recommended to add a suitable class in Mechanical Drawing in Bolton Street.

Brass Finishing—Course E/146

Class No.	Subject	Day	Hour	Room	Teacher
FIRST YEAR:					
150	Brassfinishing—Practical	Monday	7.30-9.30	L.H.	M. O'Carroll
91C	Workshop Theory	Thurs.	8.35-9.35	B 11	T. Murphy
and					
92C	Workshop Calculations	Thurs.	7.30-8.30	B 12	P. Kenny
93AB	Mechanical Drawing	Monday	7.30-9.30	A 13	J. Lawless
SECOND YEAR:					
151	Brassfinishing—Practical (Eng.)	Friday	7.30-9.30	L.H.	M. O'Carroll
152	Brassfinishing—Practical (Art)	Tuesday	7.30-9.30	L.H.	W. Fleming
95B	Workshop Theory	Wed.	8.35-9.35	B 11	T. Murphy
and					
96B	Workshop Calculations	Wed.	7.30-8.30	B 12	P. Kenny
97B	Mechanical Drawing	Thurs.	7.30-9.30	A 9	J. Roche
THIRD YEAR:					
153	Brassfinishing—Practical (Eng.)	Friday	7.30-9.30	L.H.	M. O'Carroll
154	Brassfinishing—Practical (Art)	Tuesday	7.30-9.30	B 29	W. Fleming
99	Workshop Theory	Monday	7.30-8.30	B 11	T. Murphy
and					
100	Workshop Calculations	Monday	8.35-9.35	B 12	P. Kenny
97B	Machine Drawing	Thurs.	7.30-9.30	A 9	J. Roche

Boilermaking—Course E/147

FIRST YEAR:					
156/1	Trade Practice	Tuesday	7.30-9.30	LINEN HALL	Mr. Lynskey
155	Trade Theory	Friday	7.30-9.30		Mr. Lynskey
SECOND YEAR:					
156/2	Trade Practice	Thursday	7.30-9.30	LINEN HALL	Mr. Lynskey
157	Trade Theory	Wed.	7.30-9.30		Mr. Lynskey

Students are recommended to take a suitable class in Mechanical Drawing in Bolton Street.

Smithwork and Art Ironwork—Course E/148

FIRST YEAR:					
160/1	Trade Practice	Monday	7.30-9.30	LINEN HALL	Mr. Gough
	Trade Theory	Friday	7.30-9.30		Mr. McGrane
SECOND YEAR:					
	Trade Practice	Wed.	7.30-9.30	LINEN HALL	Mr. Gough
	Trade Theory	Friday	7.30-9.30		Mr. McGrane

Metal Plate Work—Course E/149

Class No.	Subject	Day	Hour	Room	Teacher
FIRST YEAR:					
163	Metal Plate Work, Lectures and Drawing I	Monday	7.30-9.30	C 4	J. Bryan
164	Metal Plate Work, Practical I	Tuesday	7.30-9.30	D 20	A. O'Toole J. Bryan
SECOND YEAR:					
165	Metal Plate Work, Lectures and Drawing II	Tuesday	7.30-9.30	C 4	C. Devine
166	Metal Plate Work, Practical II	Wed.	7.30-9.30	D 20	A. O'Toole M. Kane
THIRD YEAR:					
167	Metal Plate Work, Lectures and Drawing III	Wed.	7.30-9.30	C 4	J. Bryan
168	Metal Plate Work, Practical III	Thurs.	7.30-9.30	D 20	M. Kane C. Devine
FOURTH YEAR:					
169	Metal Plate Work, Lectures and Drawing IV	Thurs.	7.30-9.30	C 4	A. O'Toole
170	Metal Plate Work, Practical IV	Friday	7.30-9.30	D 20	M. Kane C. Devine
FIFTH YEAR:					
171	Metal Plate Work, Lectures and Drawing V	Friday	7.30-9.30	C 4	A. O'Toole
172	Metal Plate Work, Practical V	Monday	7.30-9.30	D 20	A. O'Toole M. Kane

Structural Steelwork—Course E/150

THIRD YEAR:					
174/5	Trade Practice	Monday	7.30-9.30	LINEN HALL	Mr. McGloughlin
173/3	Trade Theory and Drawing	Wed.	7.30-9.30		Mr. Shatwell
FOURTH YEAR:					
174/4	Trade Practice	Wed.	7.30-9.30	LINEN HALL	Mr. McGloughlin
173/4	Trade Theory and Drawing	Monday	7.30-9.30		Mr. Shatwell

PHYSICAL EDUCATION (Men)—Course 201

175	Physical Training Div. I ...	Monday	7.30-9.30	C 29	M. C. Doogan
176	Physical Training Div. II ...	Tuesday	7.30-9.30	C 29	M. C. Doogan
177	Physical Training Div. III ...	Wed.	7.30-9.30	C 29	M. C. Doogan

Addresses of Professional Engineering Institutions

- Institution of Mechanical Engineers, 1 Birdcage Walk, Westminster, London S.W.1.
- Institution of Production Engineers, 10 Chesterfield Street, Mayfair, London W.1.
- Institution of Electrical Engineers, Savoy Place, Victoria Embankment, London W.C.2.
- Institution of Civil Engineers, Great George Street, Westminster, London S.W.1.
- Institution of Civil Engineers of Ireland, The Intercontinental, Ballsbridge, Dublin 4 (Tel. 689673).
- Institution of Heating and Ventilating Engineers, 49 Cadogan Square, London S.W.1.
- Institution of Structural Engineers, 11 Upper Belgrave Street, London S.W.1.
- Institution of Chemical Engineers, 16 Belgrave Square, London S.W.1.
- Institute of Marine Engineers, 76 Mark Lane, London E.C.3.
- Royal Aeronautical Society, 4 Hamilton Place, London W.1.
- Institute of Motor Industry, Fanshaws, Brickendon, Hertfordshire.

