

1961

Engineering: Courses and Timetables Session 1961-62

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



Courses and Timetables

SESSION 1961-62

CALENDAR—SESSION 1961-62

- 1961—SEPT. 4 Monday - - Enrolment commences for :
Preliminary and Diploma Courses
in Engineering; Part-time Day
Engineering Courses; Part-time
Day Courses for Trade Appren-
tices.
- 5 Tuesday - - Engineering "Sandwich" Course
resumes work.
- 11 Monday - - Preliminary Engineering and Part-
time Day Trade Apprentice
Courses commence work.
- 18 Monday - - Enrolment commences for Evening
Courses; Part-time Day Engin-
eering Courses commence work.
- 25 Monday - - Evening Courses commence work.
- OCT. 2 Monday - - Diploma Course in Engineering
commences work.
- NOV. 1 Wednesday - - *All Saints' Day.* All Day Classes
closed.
- DEC. 8 Friday - - *Feast of the Immaculate Concep-
tion.* All Day Classes closed.
- 20 Wednesday - - Final Class meetings before Christ-
mas Vacation.
- 1962—JAN. 8 Monday - - All Classes resume work after
Christmas Vacation.
- MAR. 17 Friday - - *St. Patrick's Day.* School closed.
- APR. 17 Tuesday - - Final Class meetings before Easter
Vacation. Final meetings of
Evening Classes for Session
1961/62.
- 30 Monday - - Day Classes resume work after
Easter Vacation.
- MAY 26 Saturday - - Final Class meetings of Diploma
Engineering Course.
- 31 Thursday - - *Ascension Day.* School closed.
- JUNE 11 Monday - - *Whit Monday.* School closed.
- 21 Thursday - - *Feast of Corpus Christi.* School
closed.
- 29 Friday - - 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.

Address : Bolton Street, Dublin.

Telephone : 43553-4, 40401.

ENGINEERING DEPARTMENT

Head of Department :

THE VICE-PRINCIPAL

Assistant Head of Department :

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

Head of Motor Engineering Division :

J. GUIRKE

Chief Instructor (Mechanical Engineering Trades) :

H. FITZGERALD, HONS. MANUAL INSTRUCTORS' CERT. (DEPT. OF ED.)

Head of Science Division :

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

Departmental Assistants :

Technology : D. FITZGIBBON, B.E.

Trades : T. MCCARTHY

DAY COURSES

For a description of the Courses, entry requirements and general regulations, refer to the College Prospectus.

Students should acquaint themselves with the timetable of their classes as published on the College notice-boards at the beginning of the session.

PRELIMINARY ENGINEERING COURSE

Course D/41 : First Year; and Course D/41 : Second Year

Subject	Hours per Week
Mathematics	5
English	5
Mechanics and Applied Mathematics	5
Physics	5
Chemistry	2
Engineering Drawing	5
Workshop Practice	3
Social Science	1
Physical Training	1

Notes: (1) Students shall not be permitted to proceed from the First to the Second year of the Course unless they have passed the College Examinations at the end of their First Year in all subjects.

(2) Students whose attendance and/or year's work proves unsatisfactory shall not be permitted to proceed with the Course.

COURSE FOR DIPLOMA IN ENGINEERING

Course D/42 (A) : First Year

Subject	Hours per Week
Mathematics	5
Engineering Drawing and Graphics	4
Mechanics and Applied Mathematics	4
Experimental Physics	7
Chemistry	3
Engineering Theory	1
Workshop Technology	1
Practical Engineering	3
Philosophy	1
Engineering Economics	1

Notes: (1) In addition to the above, students must attend Evening Workshop Classes for periods as directed.

(2) Students are required to present themselves for the General Certificate of Education Advanced Level Examinations in Pure Mathematics, Applied Mathematics and Physics.

Course D/42 (A) : Second Year

Subject	Hours per Week
Mathematics	5
Engineering Drawing and Graphics	5
Applied Mechanics	4
Principles of Electricity	4
Physics	4
Chemistry	3
Workshop Technology	1
Practical Engineering	3
Philosophy	1
German (Technical)	1
Engineering Economics	1

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 his First Year and, in addition, has passed, or has been exempted from, all examinations required for studentship of the Engineering Institutions.

(2) Before being admitted to the Second Year of the Course students must satisfy the College that they have been employed, during the Summer Vacation period at the end of their First Year, in suitable practical work in industry.

Course D/42 (A) : Third Year

Subject	Hours per Week
Mathematics	3
Theory of Machines	4
Theory of Structures	3
Properties and Strength of Materials	3
Machine Design	3
Applied Thermodynamics	4
Electrotechnology	4
Mechanics of Fluids	3
Metrology and Machine Tools	1
Philosophy	1
German (Technical)	1
Engineering Administration	2

Notes: (1) No student will be admitted to the Third Year of the Course unless he has passed the College Examinations at the end of his Second Year, and, in addition, has passed, or has been exempted from, the Joint Part One Examination in all subjects.

(2) Before being admitted to the Third Year of the Course students must satisfy the College that they have been employed, during the Summer Vacation period at the end of their Second Year, in suitable practical work in industry.

Course D/42 (A) : Fourth Year

Subject	Hours per Week
Applied Mathematics	2
Theory of Machines	4
Structures	3
Properties and Strength of Materials	3
Machine Design	4
Applied Thermodynamics	5
Electrical Engineering	3
Mechanics of Fluids	3
Metrology and Machine Tools	1
Philosophy	1
German	1
Engineering Administration	2

Notes: (1) No student will be admitted to the Fourth Year of the Course unless he has passed the College Examination at the end of his Third Year.

(2) Before being admitted to the Fourth Year of the Course students must satisfy the College that they have been employed, during the Summer Vacation period at the end of their Third Year, in suitable practical work in industry.

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.

PART-TIME COURSE IN MECHANICAL ENGINEERING

Course D/42 (B) : First and Second Years

Subject	Hours per Week
Applied Mechanics	3
Heat, Light and Sound	3
Principles of Electricity	3
Mathematics	3
Machine Drawing	2*
Engineering Economics	2*

* 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
Optional Subject	3
Strength of Materials	3
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
Optional Subject	3
Strength of Materials	3
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.

ENGINEERING "SANDWICH" COURSES

MECHANICAL ENGINEERING

Course D/42 (C)

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	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

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

AUTOMOBILE ENGINEERING

Course D/42 (D)

Subject	Hours of Instruction per Week		
	1st Year	2nd Year	3rd Year
Garage Practice	4½	4½	4½
Motor Workshop Practice	4½	4½	4½
Motor Engineering Lecture	3	3	4
Engineering Science	6	6	6
Mathematics	4	4	3
Engineering Drawing	5	5	4
Engineering Economics	—	—	3
English	2	2	—
Philosophy	1	1	1
Physical Training	1	1	1

Note: Students attend the College from September to April and spend the remainder of the year in industry.

PART-TIME DAY ENGINEERING APPRENTICES' COURSE

Students attend for one day per week, 9.30 a.m. to 5.0 p.m., and take additional Evening Classes. Normally students are required to take their Trade Theory and Practical Training at Evening Classes.

Course D/43: 1A, 1B and 1C: First Year; 2A, 2B and 2C: Second Year

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

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

TRADE COURSES—DAY

Fitting and Turning—Course D/141

THIRD YEAR APPRENTICES

Day	Time	Subject	Teacher	Room
Friday	9.30-11.00	Fitting and Turning	Mr. Hunt	B 32
	11.00-12.30	Fitting and Turning	Mr. Hunt	B 32
	2.00- 3.30	Fitting and Turning	Mr. Hunt	B 32
	3.30- 5.00	Fitting and Turning	Mr. Hunt	B 32
Wednesday	9.30-11.00	Fitting and Turning	Mr. Hunt	B 32
	11.00-12.30	Fitting and Turning	Mr. Hunt	B 32
	2.00- 3.30	Fitting and Turning	Mr. Hunt	B 32
	3.30- 5.00	Fitting and Turning	Mr. Hunt	B 32

FOURTH YEAR APPRENTICES

Monday	9.30-11.00	Fitting and Turning	Mr. Hunt	B 32
	11.00-12.30	Fitting and Turning	Mr. Hunt	B 32
	2.00- 3.30	Fitting and Turning	Mr. Hunt	B 32
	3.30- 5.00	Fitting and Turning	Mr. Hunt	B 32
Thursday	9.30-11.00	Fitting and Turning	Mr. Hunt	B 32
	11.00-12.30	Fitting and Turning	Mr. Hunt	B 32
	2.00- 3.30	Fitting and Turning	Mr. Hunt	B 32
	3.30- 5.00	Fitting and Turning	Mr. Hunt	B 32

FIFTH YEAR APPRENTICES

Tuesday	9.30-11.00	Fitting and Turning	Mr. Hunt	B 32
	11.00-12.30	Fitting and Turning	Mr. Hunt	B 32
	2.00- 3.30	Fitting and Turning	Mr. Hunt	B 32
	3.30- 5.00	Fitting and Turning	Mr. Hunt	B 32

Motor Mechanics' Work—Course D/142A

Class No.	Subject	Day	Hour	Room	Teacher
	FIRST YEAR:				
	Garage Practice	Thursday	2.00-5.00	D 17	R. Dowling
	or				
	Workshop Practice	Thursday	2.00-5.00	D 24	T. Giblin
	Motor Engineering (Lecture)	Thursday	9.30-11.0	C 24	S. Guirke
51/1	Mechanical Drawing	Thursday	11.0-12.30	C 5	—
	Science	Tuesday	7.00-10.0	A 22	E. P. Dunne
51/2	Science	Friday	7.00-8.00	A 20	E. P. Dunne
52	Mathematics	Friday	8.00-10.0	B 16	W. I. O'Doherty
	SECOND YEAR:				
	Garage Practice	Monday	2.00-5.00	D 17	R. Dowling
	or				
	Workshop Practice	Monday	2.00-5.00	D 24	T. Giblin
	Motor Engineering (Lecture)	Monday	9.30-11.0	C 24	S. Guirke
	Mechanical Drawing	Monday	11.0-12.30	C 5	—
54/1	Science	Monday	8.00-10.0	A 21	E. P. Dunne
54/2	Science	Friday	8.00-10.0	A 20	E. P. Dunne
55/1	Mathematics	Monday	7.00-8.00	A 21	W. O'Doherty
55/2	Mathematics	Friday	7.00-8.00	B 16	W. J. O'Doherty
	THIRD YEAR:				
	Garage Practice	Friday	2.00-5.00	D 17	R. Dowling
	or				
	Workshop Practice	Friday	2.00-5.00	D 24	T. Giblin
	Motor Engineering (Lecture)	Friday	9.30-12.30	C 24	S. Guirke
113B	and Technical Drawing	Friday	9.30-12.30	C 24	S. Guirke
124A	Automobile Electricity	Thursday	7.00-8.30	C 28	—
	Engineering Science and	Thursday	7.00-8.30	C 28	—
	Mathematics—A	Wed.	7.00-10.0	A 22	J. Butler
	FOURTH YEAR—A:				
	Garage Practice	Tuesday	9.30-12.30	D 17	R. Dowling
	or				
	Workshop Practice	Tuesday	9.30-12.30	D 24	T. Giblin
	Motor Engineering (Lecture)	Tuesday	2.00-5.00	C 24	S. Guirke
118B	Automobile Electricity	Friday	7.00-8.30	C 28	—
	FOURTH YEAR—B:				
	Garage Practice	Tuesday	2.00-5.00	D 17	R. Dowling
	or				
	Workshop Practice	Tuesday	2.00-5.00	D 24	T. Giblin
	Motor Engineering (Lecture)	Tuesday	9.30-12.30	C 24	S. Guirke
118A	Automobile Electricity	Friday	8.30-10.0	C 28	C. Bryan
	FIFTH YEAR:				
	Engine Testing and Tuning	Wed.	2.00-5.00	D 17	J. Guirke
	or				
	Workshop Practice	Wed.	2.00-5.00	D 24	T. Giblin
	Motor Engineering (Lecture)	Wed.	9.30-12.30	C 24	—
123B	Automobile Electricity	Tuesday	7.00-8.30	C 28	C. Bryan
134	Heat Engines and Applied	—	7.00-10.0	—	—
	Mechanics	—	7.00-10.0	—	—
65	Garage Organisation and	Thursday	7.30-9.30	B 9	J. N. Brooks
	Management	Thursday	7.30-9.30	B 9	J. N. Brooks

Motor Mechanics' Work—Course D/142B

Class No.	Subject	Day	Hour	Room	Teacher
	FIRST YEAR—A:				
	Garage Practice	Friday	9.30-12.30	D 17	R. Dowling
	or				
	Workshop Practice	Friday	9.30-12.30	D 24	T. Giblin
112	Motor Engineering (Lecture)	Friday	9.30-12.30	D 24	T. Giblin
	—A	Thursday	7.00-8.30	C 24	T. Giblin
113A	Automobile Electricity—A	Thursday	8.30-10.0	C 28	—
114	Engineering Science and	Thursday	8.30-10.0	C 28	—
	Mathematics	Wed.	7.00-10.0	C 28	J. Butler
	FIRST YEAR—B:				
	Garage Practice	Friday	2.00-5.00	D 17	R. Dowling
	or				
	Workshop Practice	Friday	2.00-5.00	D 24	T. Giblin
	Motor Engineering (Lecture)	Friday	2.00-5.00	D 24	T. Giblin
112B	—B	Thursday	8.30-10.0	C 24	T. Giblin
113B	Automobile Electricity—B	Thursday	7.00-8.30	C 28	—
114	Engineering Science and	Thursday	7.00-8.30	C 28	—
	Mathematics	Wed.	7.00-10.0	C 28	J. Butler
	SECOND YEAR—A:				
	Garage Practice	Monday	2.00-5.00	D 17	R. Dowling
	or				
	Workshop Practice	Monday	2.00-5.00	D 24	T. Giblin
117A	Motor Engineering (Lecture)	Monday	2.00-5.00	D 24	T. Giblin
	—A	Friday	7.00-8.30	C 24	T. Giblin
118A	Automobile Electricity—A	Friday	8.30-10.0	C 28	—
119	Engineering Science and	Friday	8.30-10.0	C 28	—
	Mathematics	Monday	7.00-10.0	C 28	J. Butler
	SECOND YEAR—B:				
	Garage Practice	Monday	2.00-5.00	D 17	R. Dowling
	or				
	Workshop Practice	Monday	2.00-5.00	D 24	T. Giblin
117B	Motor Engineering (Lecture)	Monday	2.00-5.00	D 24	T. Giblin
	—B	Friday	8.30-10.0	C 24	T. Giblin
118B	Automobile Electricity—B	Friday	7.00-8.30	C 28	—
119	Engineering Science and	Friday	7.00-8.30	C 28	—
	Mathematics	Monday	7.00-10.0	C 28	J. Butler
	SECOND YEAR—C:				
	Garage Practice	Friday	9.30-12.30	D 17	R. Dowling
	or				
	Workshop Practice	Friday	9.30-12.30	D 24	T. Giblin
117B	Motor Engineering (Lecture)	Friday	9.30-12.30	D 24	T. Giblin
	—B	Friday	8.30-10.0	C 24	T. Giblin
118B	Automobile Electricity—B	Friday	7.00-8.30	C 28	—
119	Engineering Science and	Friday	7.00-8.30	C 28	—
	Mathematics	Monday	7.00-10.0	C 28	J. Butler
	THIRD YEAR—A:				
	Garage Practice	Monday	9.30-12.30	D 17	R. J. Dowling
	or				
	Workshop Practice	Monday	9.30-12.30	D 24	T. Giblin
122A	Motor Engineering (Lecture)	Monday	9.30-12.30	D 24	T. Giblin
	—A	Tuesday	7.00-8.30	C 24	J. N. Brooks
123A	Automobile Electricity—A	Tuesday	8.30-10.0	C 28	—
124A	Engineering Science and	Tuesday	8.30-10.0	C 28	—
	Mathematics—A	Wed.	7.00-10.0	A 22	J. Butler

Motor Mechanics' Work—Course D/142B—contd.

Class No.	Subject	Day	Hour	Room	Teacher
	THIRD YEAR—B: Garage Practice	Tuesday	2.00-5.00	D 17	R. Dowling
	or				
122B	Workshop Practice	Tuesday	2.00-5.00	D 24	T. Giblin
	Motor Engineering (Lecture)				
	—B	Tuesday	8.30-10.0	C 24	J. N. Brooks
123B	Automobile Electricity—B ...	Tuesday	7.00-8.30	C 28	C. Bryan
124A	Engineering Science and Mathematics—B	Thursday	7.00-10.0	A 22	J. Butler
	THIRD YEAR—C: Garage Practice	Thursday	9.30-12.30	D 17	R. Dowling
	or				
122A	Workshop Practice	Thursday	9.30-12.30	D 24	J. Guirke
	Motor Engineering (Lecture)				
	—A	Tuesday	7.00-8.30	C 24	J. N. Brooks
123A	Automobile Electricity—A ...	Tuesday	8.30-10.0	C 28	C. Bryan
124A	Engineering Science and Mathematics—B	Thursday	7.00-10.0	A 22	J. Butler
	FOURTH YEAR—A: Garage Practice	Thursday	9.30-12.30	D 17	R. Dowling
	or				
127	Workshop Practice	Thursday	9.30-12.30	D 24	T. Giblin
	Motor Engineering (Lecture)	Monday	7.00-10.0	C 24	J. N. Brooks
128A	Automobile Electricity—A ...	Wed.	7.30-9.30	D 16	C. Bryan
	FOURTH YEAR—B: Garage Practice	Thursday	2.00-5.00	D 17	R. Dowling
	or				
127	Workshop Practice	Thursday	2.00-5.00	D 24	J. Guirke
	Motor Engineering (Lecture)	Monday	7.00-10.0	C 24	J. N. Brooks
128A	Automobile Electricity—A ...	Wed.	7.30-9.30	D 16	C. Bryan
	FOURTH YEAR—C: Garage Practice	Wed.	9.30-12.30	D 17	J. Guirke
	or				
127	Workshop Practice	Wed.	9.30-12.30	D 24	T. Giblin
	Motor Engineering (Lecture)	Monday	7.00-10.0	C 24	J. N. Brooks
128B	Automobile Electricity—B ...	Friday	7.30-9.30	D 16	C. Bryan
	FIFTH YEAR—A: Engine Testing and Tuning	Tuesday	9.30-12.30	D 17	J. Guirke
	or				
132	Workshop Practice	Tuesday	9.30-12.30	D 24	T. Giblin
	Motor Engineering (Lecture)	Wed.	7.00-10.0	C 24	J. N. Brooks
133	Automobile Electricity ...	Monday	7.30-9.30	D 16	C. Bryan
134	Heat Engines and Applied Mechanics	—	7.00-10.0	—	—
65	Garage Organisation and Management	Thursday	7.30-9.30	A 21	J. N. Brooks

Motor Mechanics' Work—Course D/142B—contd.

Class No.	Subject	Day	Hour	Room	Teacher
	FIFTH YEAR—B: Engine Testing and Tuning	Wed.	9.30-12.30	D 17	R. J. Dowling
	or				
	Workshop Practice	Wed.	9.30-12.30	D 24	T. Giblin
132	Motor Engineering (Lecture)	Wed.	7.00-10.0	C 24	J. N. Brooks
133	Automobile Electricity ...	Monday	7.30-9.30	D 16	C. Bryan
134	Heat Engines and Applied Mechanics	—	7.00-10.0	—	—
65	Garage Organisation and Management	Thursday	7.30-9.30	A 21	J. N. Brooks
	FIFTH YEAR—C: Engine Testing and Tuning	Wed.	2.00-5.00	D 17	R. J. Dowling
	or				
	Workshop Practice	Wed.	2.00-5.00	D 24	T. Giblin
132	Motor Engineering (Lecture)	Wed.	7.00-10.0	C 24	J. N. Brooks
133	Automobile Electricity ...	Monday	7.30-9.30	D 16	C. Bryan
134	Heat Engines and Applied Mechanics	—	7.00-10.0	—	—
65	Garage Organisation and Management	Thursday	7.30-9.30	A 21	J. N. Brooks

EVENING COURSES

GRADUATE ENGINEERING COURSE

Course E/41 (For the Examinations of Professional Bodies)

PRELIMINARY YEAR:

Class No.	Subject	Day	Hour	Room	Teacher
1A	English—A	Tuesday	7.00-8.30	B 13	P. J. Allen
1B	English—B	Tuesday	8.30-10.00	B 13	P. J. Allen
2	Physics	Monday	8.30-10.00	A 20	J. Tighe
3	Mechanics	Monday	7.00-8.30	A 22	A. Whelan
4	Mathematics	Wed.	7.00-10.00	B 16	W. J. O'Doherty

FIRST YEAR:

5	Engineering Drawing ...	Wed.	7.00-10.00	A 1	J. Roche
6	Heat, Light and Sound ...	Monday	7.00-8.30	A 20	J. Tighe
7	Mechanics	Monday	8.30-10.00	A 26	A. Whelan
8	Mathematics	Friday	7.00-8.30	B 13	—
9	Principles of Electricity ...	Tuesday	7.00-8.30	A 19	J. Tighe

SECOND YEAR:

10	Engineering Drawing ...	Monday	7.00-10.00	A 1	—
11	Heat, Light and Sound ...	Thursday	8.30-10.00	A 20	P. Coffey
12	Mechanics	Thursday	7.00-8.30	A 20	P. Coffey
13	Mathematics	Friday	8.30-10.00	B 13	—
14	Principles of Electricity ...	Tuesday	8.30-10.00	A 19	J. Tighe

Civil Engineering

15	Mathematics	Friday	7.00-8.30	B 11	J. T. Cotter
63	Applied Mechanics	Friday	8.30-10.00	A 22	A. Whelan
17	Strength of Materials ...	Monday	7.00-8.30	B 9	—
18	Theory of Structures ...	Monday	8.30-10.00	B 9	—

THIRD YEAR:

19	Engineering Design ...	Friday	7.00-10.00	A 2	—
20	Internal Combustion Engines	Wed.	7.00-8.30	A 21	—
21	Steam	Wed.	8.30-10.00	A 21	—
22	Strength of Materials ...	Monday	7.00-8.30	A 7	J. Daly
23	Mathematics	Monday	8.30-10.00	A 7	T. Lenihan
24	Theory of Machines ...	Tuesday	7.00-8.30	A 7	—
25	Engineering Administration	Thursday	7.00-10.00	A 7	P. MacLoughlin

THIRD YEAR :

Civil Engineering

Class No.	Subject	Day	Time	Room	Teacher
26	Strength of Materials ...	Wed.	7.00-8.30	B 9	J. Daly
27	Theory of Structures ...	Wed.	8.30-10.00	B 9	J. Daly
63	Applied Mechanics ...	Friday	7.00-8.30	A 22	A. Whelan
29	Structural Engineering ...	Monday	7.00-10.00	A 2	S. Kenny
30	Mathematics	Friday	8.30-10.00	B 11	J. T. Cotter

FOURTH YEAR:

31	Engineering Design ...	Friday	7.00-10.00	A 2	—
32	Internal Combustion Engines	Wed.	7.00-8.30	A 21	—
33	Steam	Wed.	8.30-10.00	A 21	—
34	Strength of Materials ...	Monday	7.00-8.30	A 7	J. Daly
35	Mathematics	Monday	8.30-10.00	A 7	T. Lenihan
36	Theory of Machines ...	Tuesday	8.30-10.00	A 7	—
37	Engineering Administration	Thursday	7.00-10.00	A 7	P. MacLoughlin

Civil and Structural Engineering

38	Municipal Engineering ...	Tuesday	7.00-10.00	—	—
39	Concrete—Plain and Reinforced	Friday	7.00-10.00	A 23	H. Clifton
40	Surveying and Levelling 1	—	—	—	—
41	Drawing, Specification and Quantities	Thursday	8.30-10.00	C 22	H. Clifton
34	Strength of Materials ...	Monday	7.00-8.30	A 7	J. Daly
29	Structural Engineering ...	Monday	7.00-10.00	A 2	S. Kenny

Note: 1. Fieldwork on Saturday afternoons during late Spring and early Summer.

THIRD AND FOURTH YEARS: Heating, Ventilating and Air Conditioning

44	Heating and Hot Water Service	Friday	7.00-8.30	B 9	—
45	Ventilation and Air Conditioning	Wed.	7.00-8.30	A 7	—
46	Mechanics of Fluids ...	Friday	8.30-10.00	B 9	—
47	Boiler House Work	Wed.	8.30-10.00	A 7	—

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	B. E. Fee 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	B 16	W. J. O'Doherty
SECOND YEAR:					
53	Machine Drawing	Tues.	7.00-10.00	A 1	B. E. Fee 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	W. J. O'Doherty
55/2	Mathematics	Friday	7.00-8.00	B 16	W. J. O'Doherty

INTERMEDIATE STAGE

THIRD YEAR:					
56	Machine Drawing & Construction	Monday	7.00-10.00	A 9	J. Roche
57	Heat and Heat Engines	Friday	7.00-8.30	A 21	—
58	Applied Mechanics	Friday	8.30-10.00	A 26	A. Whelan
59	Mathematics	Thurs.	7.30-9.30	B 9	W. J. O'Doherty

ADVANCED STAGE

FOURTH YEAR:					
60	Drawing Office Procedure	Tuesday	7.00-8.30	B 9	—
61	Machine Construction & Design	Tuesday	8.30-10.00	B 9	—
62	Heat Engines	Friday	8.30-10.00	A 21	—
63	Applied Mechanics	Friday	7.00-8.30	A 26	A. Whelan
64	Mathematics	Thurs.	7.30-9.30	B 9	J. Broderick

Higher Technological Stage

FIFTH YEAR:					
19	Engineering Design	Friday	7.00-10.00	A 2	—
20	Internal Combustion Engines	Wed.	7.00-8.30	A 21	—
21	Steam	Wed.	8.30-10.00	A 21	—
22	Strength of Materials	Monday	7.00-8.30	A 7	J. Daly
23	Mathematics	Monday	8.30-10.00	A 7	T. Lenihan
24	Theory of Machines	Tuesday	7.00-10.00	A 7	—
SIXTH YEAR:					
31	Engineering Design	Friday	7.00-10.00	A 2	—
32	Internal Combustion Engines	Wed.	7.00-8.30	A 21	—
33	Steam	Wed.	8.30-10.00	A 21	—
34	Strength of Materials	Monday	7.00-8.30	A 7	J. Daly
35	Mathematics	Monday	8.30-10.00	A 7	T. Lenihan
36	Theory of Machines	Tuesday	7.00-10.00	A 7	—

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.

TECHNICIAN COURSES

AUTOMOBILE ENGINEERING

Course E/43

Class No.	Subject	Day	Hour	Room	Teacher
FIRST YEAR:					
114	Engineering Science and Mathematics	Wed.	7.00-10.00	C 28	—
50	Machine Drawing	Thursday	7.30-9.30	A 1	B. E. Fee
112A	Motor Engineering (Lecture)	Thursday	7.00-8.30	C 24	T. Giblin
1/2	English	Tuesday	8.30-10.00	B 13	P. J. Allen
55/1	Mathematics	Monday	7.00-8.00	A 21	W. O'Doherty
55/2	Mathematics	Friday	8.00-10.00	B 16	W. O'Doherty
SECOND YEAR:					
119	Engineering Science and Mathematics	Monday	7.00-10.00	C 28	—
117A	Motor Engineering (Lecture)	Friday	7.00-8.30	C 24	J. N. Brooks
59	Mathematics	Thursday	7.30-9.30	B 9	W. O'Doherty
THIRD YEAR:					
62	Heat Engines	Friday	8.30-10.00	A 21	—
63	Applied Mechanics	Friday	7.00-8.30	A 26	A. Whelan
127	Motor Engineering (Lecture)	Monday	7.30-9.30	C 24	J. N. Brooks
FOURTH YEAR:					
132	Motor Engineering (Lecture)	Wed.	7.00-10.00	C 24	J. N. Brooks
65	Garage Organisation and Management	Thursday	7.00-10.00	A 21	J. N. Brooks

PRODUCTION—METHODS AND PLANNING

Course E/44

Class No.	Subject	Day	Hour	Room	Teacher
56	Machine Shop Practice	Thursday	7.00-10.00	B 32	H. J. O'Neill, P. Burke
67	Machine Shop Technology	Wed.	7.00-10.00	B 34	H. J. O'Neill
68	Jig and Tool Design	Tuesday	7.00-8.30	B 34	H. J. O'Neill
69	Production — Methods and Planning	Tuesday	8.30-10.00	B 34	H. J. O'Neill

ENGINEERING DRAUGHTSMAN—DESIGNER'S COURSE

Course E/45

Class No.	Subject	Day	Time	Room	Teacher
1/2	English	Tuesday	8.30-10.00	B 13	P. J. Allen
4	Mathematics	Wed.	7.00-10.00	B 16	W. J. O'Doherty
3	Mechanics	Monday	7.00-8.30	A 22	A. Whelan
2	Physics	Monday	8.30-10.00	A 20	J. Tighe
5	Engineering Drawing ...	Wed.	7.00-10.00	A 1	J. Roche
8	Mathematics	Friday	7.00-8.30	B 13	—
67	Machine Shop Technology	Wed.	7.00-10.00	B 34	H. J. O'Neill
	or				
9	Principles of Electricity ...	Tuesday	7.00-8.30	A 19	J. Tighe
10	Engineering Drawing ...	Monday	7.00-10.00	A 1	—
13	Mathematics	Friday	8.30-10.00	B 13	—
67	Machine Shop Technology	Wed.	7.00-10.00	B 34	H. J. O'Neill
	or				
14	Principles of Electricity ...	Tuesday	8.30-10.00	A 19	J. Tighe
19	Engineering Design ...	Friday	7.00-10.00	A 2	—
22	Strength of Materials and Metallurgy	Monday	7.00-8.30	A 7	J. Daly
24	Theory of Machines ...	Tuesday	7.00-8.30	A 7	—
	or				
18	Theory of Structures ...	Monday	8.30-10.00	B 9	—
69	Production Methods and Planning	Tuesday	8.30-10.00	B 34	H. J. O'Neill
60	Drawing Office Procedure	Tuesday	7.00-8.30	B 9	—

AIRCRAFT MAINTENANCE LICENCE

Course E/46

FIRST YEAR:

Class No.	Subject	Licence Category	Day	Time	Room	Teacher
70	Engineering Drawing, Materials & Processes	A & C	Mon.	7.00-10.00	B 16	D. McMahon
71	Aero-Engineering ...	A & C	Tues.	7.00-9.00	D 30	J. Humphreys
72	Aero-Engineering ...	A & C	Thur.	7.00-9.00	D 30	T. McInerney

SECOND YEAR (FOKKER "FRIENDSHIPS" TURBO-PROP.)

73	Aero-Engineering ...	A & C	Wed.	7.00-9.00	D 30	P. I. Taylor
74	Aero-Engineering ...	A	Mon.	7.00-9.00	D 27	D. Tighe
75	Aero-Engineering ...	C	Fri.	7.00-9.00	D 30	D. Tighe

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

76	Aero-Engineering ...	A & C	Mon.	7.00-9.00	D 30	P. I. Taylor
77	Aero-Engineering ...	A	Thur.	7.00-9.00	D 27	P. I. Taylor
78	Aero-Engineering ...	C	Tues.	7.00-9.00	D 27	T. Mehigan

SECOND YEAR (BOEING JET)

79/1	Aero-Engineering ...	A	Tues.	7.00-9.00	A 21	P. I. Taylor
80/1	Aero-Engineering ...	C	Thur.	7.00-9.00	B 10	M. Ward
79/2	Aero-Engineering ...	A	Fri.	7.00-9.00	D 27	P. I. Taylor
80/2	Aero-Engineering ...	C	Wed.	7.00-9.00	D 27	M. Ward

DIESEL MAINTENANCE

Course E/47

Class No.	Subject	Day	Time	Room	Teacher
81	Diesel Maintenance—Theory I	Wed.	7.00-8.30	B 13	P. MacLoughlin
82	Diesel Maintenance—Practical I	Monday	7.00-10.0	D 21	J. MacNamara
83	Diesel Maintenance—Theory II	Wed.	8.30-10.0	B 13	P. MacLoughlin
84	Diesel Maintenance—Practical II	Friday	7.00-10.0	D 21	J. MacNamara

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 10	A. H. Porter

TRADE COURSES

Fitting and Turning—Course E/141

JUNIOR STAGE

Class No.	Subject	Day	Hour	Room	Teacher
FIRST YEAR:					
90A	Fitting and Turning—1A ...	Thursday	7.30-9.30	B 33	W. de Renzy
91A	Workshop Theory—1A ... and	Tuesday	8.35-9.35	B 11	D. Aungier
92A	Workshop Calculations—1A	Tuesday	7.30-8.30	B 12	—
93AD	Mechanical Drawing—1A ...	Wed.	7.30-9.30	A 9	J. Lawless
90B	Fitting and Turning—1B ...	Wed.	7.30-9.30	B 33	W. De Renzy
91B	Workshop Theory—1B ... and	Tuesday	7.30-8.30	B 11	D. Aungier
92B	Workshop Calculations—1B	Tuesday	8.35-9.35	B 12	—
93BC	Mechanical Drawing—1B ...	Friday	7.30-9.30	A 9	J. Roche
90C	Fitting and Turning—1C ...	Tuesday	7.30-9.30	B 33	R. Tynan
91C	Workshop Theory—1C ... and	Thursday	8.35-9.35	B 11	D. Aungier
92C	Workshop Calculations—1C	Thursday	7.30-8.30	B 12	—
93BC	Mechanical Drawing—1C ...	Friday	7.30-9.30	A 9	J. Roche
90D	Fitting and Turning—1D ...	Monday	7.30-9.30	B 33	R. Tynan
91D	Workshop Theory—1D ... and	Thursday	7.30-8.30	B 11	D. Aungier
92D	Workshop Calculations—1D	Thursday	8.35-9.35	B 12	—
93AD	Mechanical Drawing—1D ...	Wed.	7.30-9.30	A 9	J. Lawless
SECOND YEAR:					
94A	Fitting and Turning—2A ...	Tuesday	7.30-9.30	B 32	G. Aungier, W. De Renzy
95A	Workshop Theory—2A ... and	Wed.	7.30-8.30	B 11	J. Gribben
96A	Workshop Calculations—2A	Wed.	8.35-9.35	B 12	—
97AC	Mechanical Drawing—2A ...	Friday	7.30-9.30	A 1	B. E. Fee, J. Lawless
94B	Fitting and Turning—2B ...	Friday	7.30-9.30	B 33	G. Aungier, W. De Renzy
95B	Workshop Theory—2B ... and	Wed.	8.35-9.35	B 11	J. Gribben
96B	Workshop Calculations—2B	Wed.	7.30-8.30	B 12	—
97B	Mechanical Drawing—2B ...	Thursday	7.30-9.30	B 16	J. Roche
94C	Fitting and Turning—2C ...	Monday	7.30-9.30	B 32	G. Aungier, R. Tynan
95C	Workshop Theory—2C ... and	Wed.	8.35-9.35	B 11	J. Gribben
96C	Workshop Calculations—2C	Wed.	7.30-8.30	B 12	—
97AC	Mechanical Drawing—2C ...	Friday	7.30-9.30	A 1	B. E. Fee, J. Lawless

SENIOR STAGE

Class No.	Subject	Day	Hour	Room	Teacher
THIRD YEAR:					
98	Fitting and Turning ...	Wed.	7.30-9.30	B 32	G. Aungier, R. Tynan
99	Workshop Theory ... and	Monday	7.30-8.30	B 11	R. Stephen
100	Workshop Calculations ...	Monday	8.35-9.35	B 12	—
101	Machine Drawing ...	Tuesday	7.30-9.30	A 9	J. Roche
FOURTH YEAR:					
102	Fitting and Turning ...	Friday	7.30-9.30	B 32	—
103	Workshop Theory ... and	Monday	8.35-9.35	B 11	R. Stephen
104	Workshop Calculations ...	Monday	7.30-8.30	B 12	—
105	Machine Drawing ...	Tuesday	7.30-9.30	B 16	S. O'Farrell
FIFTH YEAR:*					

* Fifth Year students should consult the Head of the Department, who will advise them regarding what classes will be most suitable for their individual requirements.

Motor Mechanics' Work—Course E/142

Class No.	Subject	Day	Hour	Room	Teacher
FIRST YEAR:					
110	Garage Practice	Tuesday	7.30-9.30	D 17	A. Harbron
111	Workshop Practice	Monday	7.30-9.30	D 24	J. Hederman
112A	Motor Engineering (Lecture)				
	—A	Thursday	7.00-8.30	C 24	T. Giblin
113A	Automobile Electricity—A ...	Thursday	8.30-10.00	C 28	—
112B	Motor Engineering (Lecture)				
	—B	Thursday	8.30-10.00	C 24	T. Giblin
113B	Automobile Electricity—B ...	Thursday	7.00-8.30	C 28	—
114	Engineering Science and Mathematics	Wed.	7.00-10.00	C 28	—
SECOND YEAR:					
115	Garage Practice	Monday	7.30-9.30	D 17	A. Harbron
116	Workshop Practice	Thursday	7.30-9.30	D 24	J. Hederman
117A	Motor Engineering (Lecture)				
	—A	Friday	7.00-8.30	C 24	T. Giblin
118A	Automobile Electricity—A ...	Friday	8.30-10.00	C 28	—
117B	Motor Engineering (Lecture)				
	—B	Friday	8.30-10.00	C 24	T. Giblin
118B	Automobile Electricity B ...	Friday	7.00-8.30	C 28	—
119	Engineering Science	Monday	7.00-10.00	C 28	—
THIRD YEAR:					
120	Garage Practice	Thursday	7.30-9.30	D 17	A. Harbron
121	Workshop Practice	Wed.	7.30-9.30	D 24	J. Hederman
122A	Motor Engineering (Lecture)				
	—A	Tuesday	7.00-8.30	C 24	J. N. Brooks
123A	Automobile Electricity—A ...	Tuesday	8.30-10.00	C 28	C. Bryan
122B	Motor Engineering (Lecture)				
	—B	Tuesday	8.30-10.00	C 24	J. N. Brooks
123B	Automobile Electricity—B ...	Tuesday	7.00-8.30	C 28	C. Bryan
124A	Engineering Science and Mathematics—A	Wed.	7.00-10.00	A 22	—
124B	Engineering Science and Mathematics—B	Thursday	7.00-10.00	A 22	—
FOURTH YEAR:					
125	Garage Practice	Thursday	7.30-9.30	D 17	A. Harbron
126	Workshop Practice	Wed.	7.30-9.30	D 24	J. Hederman
127	Motor Engineering (Lecture)	Monday	7.30-9.30	C 24	J. N. Brooks
128A	Automobile Electricity—A	Wed.	7.30-9.30	D 16	C. Bryan
128B	Automobile Electricity—B	Friday	7.30-9.30	D 16	—
129	Heat Engines and Applied Mechanics	—	—	—	—
FIFTH YEAR:					
130	Engine Testing and Tuning	Thursday	7.30-9.30	D 17	A. Harbron
131	Workshop Practice	Wed.	7.30-9.30	—	J. Hederman
132	Motor Engineering (Lecture)	Wed.	7.00-10.00	C 24	J. N. Brooks
133	Automobile Electricity ...	Monday	7.30-9.30	D 16	C. Bryan
134	Heat Engines and Applied Mechanics	—	7.00-10.00	—	—
65	Garage Organisation and Management	Thursday	7.30-9.30	A 21	J. N. Brooks

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	P. Cowley
141A	Welding Theory—1A ...	Thursday	7.00-8.30	A 9	P. Monahan
140B	Oxy-Acetylene and Electric Welding—1B	Tuesday	7.30-9.30	C 32	P. Cowley
141B	Welding Theory—1B	Thursday	8.30-10.00	A 9	P. Monahan
SECOND YEAR:					
142A	Oxy-Acetylene and Electric Welding—2A	Wed.	7.30-9.30	C 32	P. Cowley
143A	Welding Theory—2A ...	Friday	7.00-8.30	A 13	P. Monahan
142B	Oxy-Acetylene and Electric Welding—2B	Thursday	7.30-9.30	C 32	P. Cowley
143B	Welding Theory—2B ...	Friday	8.30-10.00	A 13	P. Monahan
THIRD & FOURTH YEARS					
144	Oxy-Acetylene and Electric Welding	Friday	7.30-9.30	C 32	P. Cowley
145	Welding Theory	Wed.	7.30-9.30	A 20	P. Monahan

Patternmaking—Course E/144

FIRST YEAR:					
146/1	Patternmaking	Tues., Thur.	7.30-9.30	D 6	E. J. Kennedy
147/1	Workshop Drawing	Monday	7.30-9.30	D 6	E. J. Kennedy
SECOND YEAR:					
146/2	Patternmaking	Tues., Thur.	7.30-9.30	D 6	E. J. Kennedy
147/2	Workshop Drawing	Monday	7.30-9.30	D 6	E. J. Kennedy
THIRD YEAR:					
146/3	Patternmaking	Tues., Thur.	7.30-9.30	D 6	E. J. Kennedy
147/3	Workshop Drawing	Monday	7.30-9.30	D 6	E. J. Kennedy

Foundry Work—Course E/145

148	Foundry Work—Practical ...	Thursday	7.30-9.30	D 5	P. Ryan
149	Foundry Work—Theory ...	Tuesday	7.30-9.30	D 5	T. C. Smith
93AD	Mechanical Drawing ...	Wed.	7.30-9.30	A 9	J. Lawless

Brass Finishing—Course E/146

Class No.	Subject	Day	Hour	Room	Teacher
FIRST YEAR:					
150	Brassfinishing—Practical ...	Monday	7.30-9.30	B 29	M. O'Carroll
91C	Workshop Theory	Thurs.	8.35-9.35	B 11	D. Aungier
and					
92C	Workshop Calculations	Thurs.	7.30-8.30	B 12	—
93AD	Mechanical Drawing	Wed.	7.30-9.30	A 13	J. Lawless
SECOND YEAR:					
151	Brassfinishing—Practical (Eng.)	Friday	7.30-9.30	B 29	M. O'Carroll
152	Brassfinishing—Practical (Art)	Tuesday	7.30-9.30	B 29	W. Fleming
95B	Workshop Theory	Wed.	8.35-9.35	B 11	J. Gribben
and					
96B	Workshop Calculations	Wed.	7.30-8.30	B 12	—
97B	Mechanical Drawing	Thurs.	7.30-9.30	B 16	J. Roche
THIRD YEAR:					
153	Brassfinishing—Practical (Eng.)	Friday	7.30-9.30	B 29	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	J. Gribben
and					
100	Workshop Calculations	Monday	8.35-9.35	B 12	—
97B	Machine Drawing	Thurs.	7.30-9.30	B 16	J. Roche

Boilermaking—Course E/147

FIRST YEAR:					
155	Boilermaking, Lectures and Drawing I	Wed.	7.30-9.30	B 10	E. Bennett
156/1	Boilermaking, Practical I ...	Tuesday	7.30-9.30	D 2	E. Bennett
SECOND YEAR:					
157	Boilermaking, Lectures and Drawing II	Monday	7.30-9.30	B 10	E. Bennett
156/2	Boilermaking, Practical II ...	Tuesday	7.30-9.30	D 2	E. Bennett

Students are recommended to add a suitable class in Mathematics.

Smithwork and Art Ironwork—Course E/148

160	Smithwork, Practical	Wed.	7.30-9.30	D 4	A. J. Ward
161	Art Ironwork, Practical	Thurs.	7.30-9.30	D 4	A. J. Ward
93BC	Machine Drawing	Friday	7.30-9.30	A 9	J. Roche
93AD	Machine Drawing	or Wed.	7.30-9.30	A 9	J. Lawless

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

FIRST YEAR

173/1	Theory and Drawing	Tuesday	7.30-9.30	B 10	Mr. Shatwell
174/1	Practical	Friday	7.30-9.30	D 2	Mr. McGloughlin

SECOND YEAR

173/2	Theory and Drawing	Tuesday	7.30-9.30	B 10	Mr. Shatwell
174/2	Practical	Friday	7.30-9.30	D 2	Mr. McGloughlin

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

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