1964

Engineering: Courses and Timetables Session 1964-65

City of Dublin Vocational Education Committee

CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE

DEPARTMENT OF

ENGINEERING

COLLEGE OF TECHNOLOGY
BOLTON STREET, DUBLIN 1

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Courses and Timetables

SESSION 1964-65

CALENDAR—SESSION 1964-65

1964—SEPT.	7 Monday	-	Enrolment commences for: Preliminary and Diploma Courses in Engineering; Part-time Day Engineering Courses; Part-time Day Courses for Trade Apprentices.
	8 Tuesday	-	Engineering "Sandwich" Course resumes work.
	14 Monday	-	Preliminary Engineering and Part-time Day Trade Apprentice Courses commence work.
	21 Monday	-	Enrolment commences for Evening Courses; First Year of Diploma Course in Engineering and Part-time Day Engineering Courses commence work.
	28 Monday	-	Evening Courses commence work; Diploma Course in Engineering resumes work.
OCT.	5 Monday	-	Automobile Technicians' Course commences.
	21 Wednesday		Votive Mass. All Day Classes closed.
DEC.	8 Tuesday	-	*Feast of the Immaculate Conception.* All Day Classes closed.
	18 Friday	-	Final Class meetings before Christmas Vacation.
1965—JAN.	4 Monday	-	All Classes resume work after Christmas Vacation.
	6 Wednesday		*Feast of the Epiphany.* All Day Classes closed.
MAR.	17 Tuesday	-	*St. Patrick's Day.* School closed.
APR.	13 Tuesday	-	Final Class meetings before Easter Vacation. All Evening Classes close.
	26 Monday	-	All Classes resume work after Easter Vacation.
MAY	7 Friday	-	Final Class Meetings of Automobile Technicians' Course.
	27 Thursday	-	*Ascension Day.* School closed.
	28 Friday	-	Final Class meetings of Diploma Engineering Course.
JUNE	7 Monday	-	*Whit Monday.* School closed.
	17 Thursday	-	*Feast of Corpus Christi.* School closed.
	25 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 1. Telephone: 49913–8.

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, 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 Assistants:
Technology: D. FITZGIBBON, B.E.
Trades: T. MCCARTHY, MAN.INSTR.CERT.

WHOLE-TIME 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 :

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

COURSE FOR DIPLOMA IN ENGINEERING

Course D/42 (A) : First Year

Subject	Hours per Week
Mathematics	7
Engineering Drawing	4
Applied Mathematics	4
Experimental Physics	9
Chemistry	3
Practical Engineering and Workshop Technology	3
Philosophy	1
Physical Training	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, Physics and Drawing.

Course D/42 (A) : Second Year

Subject	Hours per Week
Mathematics	5
Engineering Drawing	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
Physical Training	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	2
Theory of Machines	4
Theory of Structures	3
Properties and Strength of Materials and Metallurgy	5
Machine Design	3
Applied Thermodynamics	4
Electrotechnology	3
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 and Metallurgy	4
Machine Design	4
Applied Thermodynamics	4
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.

ENGINEERING DRAUGHTSMANSHIP

Course D/43

Subject	Hours per Week
Draughtsmanship and Drawing Office Practice	14
Workshops—Theory and Practice	5
English	3
Mathematics	3
Science	3
Philosophy	1
Physical Training	1

SANDWICH COURSES

AUTOMOBILE ENGINEERING TECHNICIANS

Course D/44

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
Physics	2	2	–
Chemistry	2	2	–
Mechanics	2	2	–
Engineering Science	–	–	6
Mathematics	4	3	3
Engineering Drawing	5	4	3
Engineering Economics	–	2	2
Principles of Management	–	–	2
English	2	2	–
Philosophy	1	1	1
Physical Training	1	1	1

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

AIRCRAFT TECHNICIANS

Course D/45

Subject	Hours of Instruction per Week		
	1st Year	2nd Year	3rd Year
Physics	3	–	–
Mechanics	3	2	2
Mathematics	3	2	2
Drawing	3	4	3
Chemistry	2	–	–
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

Note: 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.

ENGINEERING APPRENTICES

Course D/46 (A)

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

TRAINEE DRAUGHTSMEN

Course D/47

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

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

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

MOTOR MECHANICS' WORK—Course D/142A

Class No.	Subject	Day	Hour	Room	Teacher
	FIRST YEAR:				
	Garage Practice	Monday	2.00–5.00	D 16	—
	or				
	Motor Workshop Practice ...	Monday	2.00–5.00	B 34	—
	Motor Engineering (Lecture)	Monday	11.0–12.30	C 24	—
	Mechanical Drawing ...	Monday	9.30–11.0	D 6	—
133	Engineering Science Mathematics	Monday	7.00–10.0	D 30	J. Curran
128	Automobile Electricity ...	Thursday	7.00–8.30	D 16	—
	SECOND YEAR—A:				
	Garage Practice	Friday	9.30–12.30	D 17	—
	or				
	Motor Workshop Practice ...	Friday	9.30–12.30	D 24	—
	Motor Enginering (Lecture)	Friday	3.30–5.00	C 24	—
	Mechanical Drawing ...	Friday	2.00–3.30	D 6	—
134	Engineering Science Mathematics	Friday	7.00–10.0	D 30	J. Butler
129	Automobile Electricity ...		7.00–8.30	D 16	—
	SECOND YEAR—B:				
	Garage Practice	Friday	9.30–12.30	D 17	—
	or				
	Motor Workshop Practice ...	Friday	9.30–12.30	D 24	—
	Motor Engineering (Lecture)	Friday	2.00–3.30	C 24	—
	Mechanical Drawing ...	Friday	3.30–5.00	D 6	—
134	Engineering Science Mathematics	Monday	7.00–10.0	B 9	—
129	Automobile Electricity ...	Friday	7.00–8.30	D 16	—
	THIRD YEAR—A:				
	Garage Practice	Tuesday	2.00–5.00	D 17	—
	or				
	Motor Workshop Practice ...	Tuesday	2.00–5.00	D 24	—
	Motor Engineering (Lecture)	Tuesday	9.30–12.30	C 24	J. Guirke
135	Engineering Science Mathematics	Thursday	7.00–10.0	B 13	E. P. Dunne
130	Automobile Electricity ...	Tuesday	7.30–8.30	–	—
	THIRD YEAR—B:				
	Garage Practice	Tuesday	2.00–5.00	D 17	—
	or				
	Motor Workshop Practice ...	Tuesday	2.00–5.00	D 24	—
	Motor Engineering (Lecture)	Tuesday	9.30–12.30	C 24	J Guirke
130	Engineering Science Mathematics	Thursday	7.00–10.0	B 13	E. P. Dunne
135	Automobile Electricity ...				
	FOURTH YEAR—A:				
	Garage Practice	Thursday	2.00–5.00	D 17	—
	or				
	Motor Workshop Practice ...	Thursday	2.00–5.00	D 24	—
	Motor Engineering (Lecture)	Thursday	9.30–12.30	C 24	J. Guirke
136	Heat Engines and Applied Mechanics	Wed.	7.00–10.0	A 26	J. Butler
131	Automobile Electricity ...	Monday	7.30–9.30	D 16	C. Bryan
139	Garage Organisation and Management — A, B, C and D	Thursday	7.30–9.30	C 24	T. Carroll

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

Class No.	Subject	Day	Hour	Room	Teacher
	FOURTH YEAR—B:				
	Garage Practice	Thursday	2.00–5.00	D 17	—
	or				
	Motor Workshop Practice ...	Thursday	2.00–5.00	D 24	—
	Motor Engineering (Lecture)	Thursday	9.30–12.30	C 24	J. Guirke
136	Heat Engines and Applied Mechanics	Wed.	7.00–10.0	A 26	J. Butler
131	Automobile Electricity ...	Monday	7.30–9.30	D 16	C. Bryan
139	Garage Organisation and Management — A, B, C and D	Tuesday	7.30–9.30	–	T. Carroll
	FIFTH YEAR—A:				
	Engine Testing and Tuning	Wed.	9.30–12.30	D 16	—
	Motor Engineering (Lecture)	Wed.	2.00–5.00	C 24	J. Guirke
137	Heat Engines and Applied Mechanics				
132	Automobile Electricity ...	Tuesday	7.30–9.30	D 16	C. Bryan
140	Garage Organisation and Management — A, B, C and D	Thursday	7.30–9.30	C 28	T. Foley
	FIFTH YEAR—B:				
	Engine Testing and Tuning	Wed.	2.00–5.00	D 16	—
	Motor Engineering (Lecture)	Wed.	9.30–12.30	C 24	J. Guirke
137	Heat Engines and Applied Mechanics				
132	Automobile Electricity ...	Tuesday	7.30–9.30	D 16	C. Bryan
140	Garage Organisation and Management — A, B, C and D	Thursday	7.30–9.30	C 28	T. Foley

MOTOR MECHANICS' WORK—Course D/142B

Class No.	Subject	Day	Hour	Room	Teacher
	FIRST YEAR—A:				
	Garage Practice	Monday	7.00–10.0	D 17	—
	or				
	Motor Workshop Practice ...	Monday	7.00–10.0	D 24	—
123	Motor Engineering (Lecture)	Monday	2.00–3.30	C 24	J. O'Brien
133	Engineering Science and Mathematics	Wed.	7.00–10.0	C 28	D. McConnell
128	Automobile Electricity ...	Monday	3.30–5.00	C 24	J. O'Brien
	FIRST YEAR—B:				
	Garage Practice	Monday	7.00–10.0	D 17	—
	or				
	Motor Workshop Practice ...	Monday	7.00–10.0	D 24	—
123	Motor Engineering (Lecture)	Tuesday	2.00–3.30	C 24	J. O'Brien
133	Engineering Science and Mathematics	Wed.	7.00–10.0	C 28	D. McConnell
128	Automobile Electricity ...	Tuesday	3.30–5.00	C 24	J. O'Brien

Class No.	Subject	Day	Hour	Room	Teacher
	FIRST YEAR—C:				
	Garage Practice	Friday	7.00–10.0	D 17	—
	or				
	Motor Workshop Practice ...	Friday	7.00–10.0	D 24	—
123	Motor Engineering (Lecture)	Wed.	9.30–11.0	C 24	J. O'Brien
133	Engineering Science and Mathematics	Wed.	7.00–10.0	C 28	D. McConnell
128	Automobile Electricity ...	Wed.	11.0–12.30	C 24	J. O'Brien
	FIRST YEAR—D:				
	Garage Practice	Friday	7.00–10.0	D 17	—
	or				
	Motor Workshop Practice ...	Friday	7.00–10.0	D 24	—
123	Motor Engineering (Lecture)	Friday	9.30–11.0	C 24	J. O'Brien
133	Engineering Science and Mathematics	Wed.	7.00–10.0	C 28	D. McConnell
128	Automobile Electricity ...	Friday	11.0–12.30	C 24	J. O'Brien
	SECOND YEAR—A:				
	Garage Practice	Monday	9.30–12.30	D 16	—
	or				
	Motor Workshop Practice ...	Monday	9.30–12.30	B 34	—
124	Motor Engineering (Lecture)	Friday	7.00–8.30	C 24	M. Kelly
134	Engineering Science and Mathematics	Monday	7.00–10.0	C 28	D. McConnell
129	Automobile Electricity ...	Friday	8.30–10.0	C 28	—
	SECOND YEAR—B:				
	Garage Practice	Tuesday	9.30–12.30	D 16	—
	or				
	Motor Workshop Practice ...	Tuesday	9.30–12.30	B 34	—
124	Motor Engineering (Lecture)	Friday	7.00–8.30	C 24	M.Kelly
134	Engineering Science and Mathematics	Monday	7.00–10.0	C 28	D. McConnell
129	Automobile Electricity ...	Friday	8.30–10.0	C 28	—
	SECOND YEAR—C:				
	Garage Practice	Tuesday	9.30–12.30	D 16	—
	or				
	Motor Workshop Practice ...	Tuesday	9.30–12.30	B 34	—
124	Motor Engineering (Lecture)	Friday	7.00–8.30	C 24	M. Kelly
134	Engineering Science and Mathematics	Monday	7.00–10.0	C 28	D. McConnell
129	Automobile Electricity ...	Friday	8.30–10.0	C 28	—
	SECOND YEAR—D:				
	Garage Practice	Friday	9.30–12.30	D 16	—
	or				
	Motor Workshop Practice ...	Friday	9.30–12.30	B 34	—
124	Motor Engineering (Lecture)	Friday	8.30–10.0	C 24	M. Kelly
134	Engineering Science and Mathematics	Monday	7.00–10.0	C 28	D. McConnell
129	Automobile Electricity ...	Friday	7.00–8.30	C 28	—

Class No.	Subject	Day	Hour	Room	Teacher
	SECOND YEAR—E:				
	Garage Practice	Friday	2.00–5.00	D 17	—
	or				
	Motor Workshop Practice ...	Friday	2.00–5.00	D 24	—
124	Motor Engineering (Lecture)	Friday	8.30–10.0	C 24	M. Kelly
134	Engineering Science and Mathematics	Monday	7.30–10.0	C 28	D. McConnell
129	Automobile Electricity ...	Friday	7.00–8.30	C 28	—
	SECOND YEAR—F:				
	Garage Practice	Friday	2.00–5.00	D 17	—
	or				
	Motor Workshop Practice ...	Friday	2.00–5.00	D 24	—
124	Motor Engineering (Lecture)	Friday	8.30–10.0	C 24	M. Kelly
134	Engineering Science and Mathematics	Monday	7.00–10.0	C 28	D. McConnell
129	Automobile Electricity ...	Friday	7.00–8.30	C 28	—
	THIRD YEAR—A:				
	Garage Practice	Monday	9.30–12.30	D 17	—
	or				
	Motor Workshop Practice ...	Monday	9.30–12.30	D 24	—
125	Motor Engineering (Lecture)	Tuesday	7.00–8.30	C 24	M. Kelly
135	Engineering Science and Mathematics				
130	Automobile Electricity ...	Tuesday	8.30–10.0	C 28	—
	THIRD YEAR—B:				
	Garage Practice	Monday	2.00–5.00	D 17	—
	or				
	Motor Workshop Practice ...	Monday	2.00–5.00	D 24	—
125	Motor Engineering (Lecture)	Tuesday	7.00–8.30	C 24	M. Kelly
135	Engineering Science and Mathematics				
130	Automobile Electricity ...	Tuesday	8.30–10.0	C 28	—
	THIRD YEAR—C:				
	Garage Practice	Tuesday	9.30–12.30	D 17	—
	or				
	Motor Workshop Practice ...	Tuesday	9.30–12.30	D 24	—
125	Motor Engineering (Lecture)	Tuesday	7.00–8.30	C 24	M. Kelly
135	Engineering Science and Mathematics				
130	Automobile Electricity ...	Tuesday	8.30–10.0	C 28	—
	THIRD YEAR—D:				
	Garage Practice	Wed.	9.30–12.30	D 17	—
	or				
	Motor Workshop Practice ...	Wed.	9.30–12.30	D 24	—
125	Motor Engineering (Lecture)	Tuesday	8.30–10.0	C 24	M. Kelly
135	Engineering Science and Mathematics				
130	Automobile Electricity ...	Tuesday	7.00–8.30	C 28	—

Class No.	Subject	Day	Hour	Room	Teacher
	THIRD YEAR—E:				
	Garage Practice	Wed.	2.00–5.00	D 17	—
	or				
	Motor Workshop Practice ...	Wed.	2.00–5.00	D 24	—
125	Motor Engineering (Lecture)	Tuesday	8.30–10.0	C 24	M. Kelly
135	Engineering Science and Mathematics				
130	Automobile Electricity ...	Tuesday	7.00–8.30	C 28	—
	THIRD YEAR—F:				
	Garage Practice	Thursday	9.30–12.30	D 17	—
	or				
	Motor Workshop Practice ...	Thursday	9.30–12.30	D 24	—
125	Motor Engineering (Lecture)	Tuesday	8.30–10.0	C 24	M. Kelly
135	Engineering Science and Mathematics				
130	Automobile Electricity ...	Tuesday	7.00–8.30	C 28	—
	FOURTH YEAR—A:				
	Garage Practice	Monday	9.30–12.30	D 17	—
	or				
	Motor Workshop Practice ...	Monday	9.30–12.30	D 24	—
126	Motor Engineering (Lecture)	Monday	7.00–10.0	C 24	—
136	Heat Engines and Applied Mechanics	Wed.	7.00–10.0	A 26	—
131	Automobile Electricity ...	—	—	—	—
139	Garage Organisation and Management — A, B, C and D	Tuesday	7.30–9.30	—	T. Carroll
	FOURTH YEAR—B:				
	Garage Practice	Monday	2.00–5.00	D 17	—
	or				
	Motor Workshop Practice ...	Monday	2.00–5.00	D 24	—
126	Motor Engineering (Lecture)	Monday	7.00–10.0	C 24	—
136	Heat Engines and Applied Mechanics	Wed.	7.00–10.0	A 26	—
131	Automobile Electricity ...	—	—	—	—
139	Garage Organisation and Management — A, B, C and D	—	—	—	—
	FOURTH YEAR—C:				
	Garage Practice	Tuesday	9.30–12.30	D 17	—
	or				
	Motor Workshop Practice ...	Tuesday	9.30–12.30	D 24	—
126	Motor Engineering (Lecture)	Monday	7.00–10.0	C 24	—
136	Heat Engines and Applied Mechanics	—	—	—	—
131	Automobile Electricity ...	—	—	—	—
139	Garage Organisation and Management — A, B, C and D	—	—	—	—

Class No.	Subject	Day	Hour	Room	Teacher
	FOURTH YEAR—D:				
	Garage Practice	Wed.	9.30–12.30	D 17	—
	or				
	Motor Workshop Practice ...	Wed.	9.30–12.30	D 24	—
126	Motor Engineering (Lecture)	Monday	7.00–10.0	—	—
136	Heat Engines and Applied Mechanics	—	—	—	—
131	Automobile Electricity ...	—	—	—	—
139	Garage Organisation and Management — A, B, C and D	—	—	—	—
	FOURTH YEAR—E:				
	Garage Practice	Wed.	2.00–5.00	D 17	—
	or				
	Motor Workshop Practice ...	Wed.	2.00–5.00	D 24	—
126	Motor Engineering (Lecture)	Monday	7.00–10.0	—	—
136	Heat Engines and Applied Mechanics	—	—	—	—
131	Automobile Electricity ...	—	—	—	—
139	Garage Organisation and Management — A, B, C and D	—	—	—	—
	FOURTH YEAR—F:				
	Garage Practice	Thursday	9.30–12.30	D 17	—
	or				
	Motor Workshop Practice ...	Thursday	9.30–12.30	D 24	—
126	Motor Engineering (Lecture)	Monday	7.00–10.0	—	—
136	Heat Engines and Applied Mechanics	—	—	—	—
131	Automobile Electricity ...	—	—	—	—
139	Garage Organisation and Management — A, B, C and D	—	—	—	—
	FIFTH YEAR—A:				
	Engine Testing and Tuning	Tuesday	2.00–5.00	D 16	—
127	Motor Engineering (Lecture)	Wed.	7.00–10.0	C 24	—
137	Heat Engines and Applied Mechanics	—	—	—	—
132	Automobile Electricity ...	—	—	—	—
140	Garage Organisation and Management — A, B, C and D	Thursday	7.30–9.30	C 28	T. Foley and others
	FIFTH YEAR—B:				
	Engine Testing and Tuning	Tuesday	2.00–5.00	D 21	—
127	Motor Engineering (Lecture)	Wed.	7.00–10.0	C 24	—
137	Heat Engines and Applied Mechanics	—	—	—	—
132	Automobile Electricity ...	—	—	—	—
140	Garage Organisation and Management — A, B, C and D	Thursday	7.30–9.30	C 28	T. Foley and others

Class No.	Subject	Day	Hour	Room	Teacher
	FIFTH YEAR—C:				
	Engine Testing and Tuning	Wed.	2.00–5.00	D 16	—
127	Motor Engineering (Lecture)	Wed.	7.00–10.0	C 24	—
137	Heat Engines and Applied Mechanics	—	—	—	—
132	Automobile Electricity ...	—	—	—	—
140	Garage Organisation and Management — A, B, C and D	Thursday	7.30–9.30	C 28	T. Foley and others
	FIFTH YEAR—D:				
	Engine Testing and Tuning	Wed.	2.00–5.00	D 21	—
127	Motor Engineering (Lecture)	Wed.	7.00–10.0	—	—
137	Heat Engines and Applied Mechanics	—	—	—	—
132	Automobile Electricity ...	—	—	—	—
140	Garage Organisation and Management — A, B, C and D	Thursday	7.30–9.30	C 28	T. Foley and others
	FIFTH YEAR—E:				
	Engine Testing and Tuning	Thursday	2.00–5.00	D 16	—
127	Motor Engineering (Lecture)	Wed.	7.00–10.0	—	—
137	Heat Engines and Applied Mechanics	—	—	—	—
132	Automobile Electricity ...	—	—	—	—
140	Garage Organisation and Management — A, B, C and D	Thursday	7.30–9.30	C 28	T. Foley and others
	FIFTH YEAR—F:				
	Engine Testing and Tuning	Thursday	2.00–5.00	D 21	—
127	Motor Engineering (Lecture)	Wed.	7.00–10.0	—	—
137	Heat Engines and Applied Mechanics	—	—	—	—
132	Automobile Electricity ...	—	—	—	—
140	Garage Organisation and Management — A, B, C and D	Thursday	7.30–9.30	C 28	T. Foley and others

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

FOR THE EXAMINATIONS OF PROFESSIONAL BODIES

MECHANICAL ENGINEERING COURSE

Course E/41A

PRELIMINARY YEAR:

This year is intended to prepare students for the G.C.E. "O" Level in the subjects listed below.

Class No.	Subject	Day	Hour	Room	Teacher
1A	English	Tuesday	7.00–8.30	B 13	P. J. Allen
2A	Physics and Mechanics ...	Wed.	7.00–10.0	A 20	—
3A	Chemistry	Tuesday	8.30–10.0	B 10	—
4A	Practical Chemistry ...	Thursday	7.00–10.0	A 23	—
5A	Mathematics	Friday	7.00–10.0	B 12	W. J. O'Doherty
6	Engineering Drawing ...	Monday	7.00–10.0	A 1	J. Roche

FIRST YEAR:

This year is designed to enable students to meet student membership requirements.

11	Physics	Wed.	7.00–10.0	B 10	D. O'Sullivan
12	Practical Physics	Tuesday	7.00–10.0	A 20	D. O'Sullivan
13	Mathematics	Friday	7.00–10.0	A 22	D. O'Sullivan

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	A. Whelan
19	Mathematics	Tuesday	7.00–8.30	A 21	D. Reid
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	P. Dunphy
27	Strength of Materials ...	Thursday	7.00–10.0	B 10	J. Daly
28	Mechanics of Fluids or ...	Friday	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.

33	Metallurgy	Monday	7.00–8.30	A 7	—
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 ...	Friday	7.00–10.0	A 2	J. Hoey

CIVIL ENGINEERING COURSE

Course E/41B

PRELIMINARY YEAR:

This year is intended to prepare students for the G.C.E. "O" Level in the subjects listed below.

Class No.	Subject	Day	Time	Room	Teacher
1B	English	Tuesday	8.30–10.0	B 13	P. J. Allen
2B	Physics and Mechanics ...	Monday	7.00–10.0	A 20	—
3B	Chemistry	Tuesday	7.00–8.30	B 10	—
4B/C	Practical Chemistry ...	Friday	7.00–10.0	A 23	—
5B	Mathematics	Wed.	7.00–10.0	B 16	W. J. O'Doherty

FIRST YEAR:

6	Engineering Drawing ...	Monday	7.00–10.0	A 1	J. Roche
7	Heat, Light and Sound ...	Thursday	7.00–8.30	A 20	L. Healy
8	Mechanics	Thursday	8.30–10.0	A 22	P. Brunkard
9	Mathematics	Tuesday	8.30–10.0	A 21	D. Reid
10	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	A. Whelan
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 ...	Friday	7.00–10.0	C 1	—
30	Engineering Materials ...	Tuesday	8.30–10.0	A 23	J. Harrington
31	Surveying and Levelling ...	Wed.	7.00–8.30	B 9	—
32	Structural Engineering ...	Monday	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

STRUCTURAL ENGINEERING COURSE

Course E/41C

For Graduate Membership of the Institution of Structural Engineers

PRELIMINARY YEAR:

This year is intended to prepare students for Student Membership of the Institution.

Class No.	Subject	Day	Time	Room	Teacher
1C	English	Thursday	8.30–10.0	B 13	—
2C	Physics and Mechanics ...	Wed.	7.00–10.0	A 22	—
3C	Chemistry	Thursday	7.00–8.30	B 13	—
4B/C	Practical Chemistry	Friday	7.00–10.0	A 23	—
5C	Mathematics	Tuesday	7.00–10.0	B 10	—
6	Engineering Drawing ...	Monday	7.00–10.0	A 1	J. Roche

FIRST YEAR:

8	Applied Mechanics	Thursday	8.30–10.0	A 22	P. Brunkard
9	Mathematics	Tuesday	8.30–10.0	A 21	D. Reid
14	Strength of Materials ...	Thursday	7.00–8.30	D 1	J. Harrington
15	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	D. Reid
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 ...	Friday	7.00–10.0	C 1	—
40	Heating, Combustion and Air Conditioning	Monday	7.00–10.0	C 1	—

WORKSHOP METHODS AND SERVICES

Course E/49

Class No.	Subject	Day	Hour	Room	Teacher
41	Workshop Method and Services	Friday	7.00–10.0	A 7	P. McLoughlin

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	D. Reid
	SECOND YEAR:				
53	Machine Drawing	Tues.	7.00–10.00	B 16	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	D. Reid
55/2	Mathematics	Friday	7.00–8.00	B 16	D. Reid

INTERMEDIATE STAGE

	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	Thurs.	7.30–9.30	B 9	W. J. O'Doherty

ADVANCED STAGE

	FOURTH YEAR:				
60	Drawing Office Procedure ...	Tuesday	7.00–8.30	A 2	J. Hoey
61	Machine Construction & Design	Tuesday	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.	8.30–10.00	A 21	J. Broderick

Higher Technological Stage

FIFTH & SIXTH YEARS:

25	Theory of Machines ...	Tuesday	7.00–10.0	A 7	N. Gillespie
26	Thermodynamics	Wed.	7.00–10.0	C 1	D. Healy
27	Strength of Materials ...	Thursday	7.00–10.0	B 10	J. Daly
28	Mechanics of Fluids ...	Friday	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.

TECHNICIAN COURSES

AUTOMOBILE ENGINEERING TECHNICIANS

Course E/43

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

PRODUCTION METHODS AND PLANNING

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):**

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

SECOND YEAR **(FOKKER FRIENDSHIP—ROLLS ROYCE DART):**

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

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

74/1	Aero-Engineering ...	A	Tues.	7.30–9.30	Aer Lingus Training School, Dublin Airport	P. I. Taylor
74/2	Aero-Engineering ...	C	Thurs.	7.30–9.30		D. Brennan
74/3	Aero-Engineering ...	A	Fri.	7.30–9.30		P. I. Taylor
74/4	Aero-Engineering ...	C	Wed.	7.30–9.30		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
	FIRST YEAR—A:				
81A	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
	FIRST YEAR—B:				
81B	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
	SECOND YEAR—A:				
83A	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
	SECOND YEAR—B:				
83B	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	7.30–10.0	B 33	G. Murphy
91A	Workshop Theory—1A ... and	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.	7.30–10.0	B 34	P. Deane
91B	Workshop Theory—1B ... and	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	7.30–10.0	B 34	P. Gaynor
91C	Workshop Theory—1C ... and	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	7.30–10.0	B 33	P. Sarsfield
91D	Workshop Theory—1D ... and	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	7.30–10.0	B 34	P. Deane
91E	Workshop Theory—1E ... and	Friday	7.30–8.30	D 4	——
92E	Workshop Calculations—1E	Friday	8.30–9.30	D 5	——
93EF	Mechanical Drawing—1E ...	Wed.	7.30–9.30	A 9	S. O'Farrell
90F	Fitting and Turning—1F ...	Thursday	7.30–10.0	B 34	P. Deane
91F	Workshop Theory—1F ... and	Friday	8.30–9.30	D 4	——
92F	Workshop Calculations—1F	Friday	7.30–8.30	D 5	——
93EF	Mechanical Drawing—1F ...	Wed.	7.30–9.30	A 9	S. O'Farrell
	SECOND YEAR:				
94A	Fitting and Turning—2A ...	Tuesday	7.30–10.0	B 29	P. A. Burke
95A	Workshop Theory—2A ... and	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	7.30–10.0	B 33	P. Sarsfield
95B	Workshop Theory—2B ... and	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	7.30–10.0	B 32	P. A. Burke
95C	Workshop Theory—2C ... and	Wed.	8.35–9.35	D 4	——
96C	Workshop Calculations—2C	Wed.	7.30–8.30	D 5	——
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 ... and	Wed.	8.30–9.30	D 4	——
96D	Workshop Calculations—2D	Wed.	7.30–8.30	D 5	——
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.	7.30–10.0	B 32	T. Murphy
99AB	Workshop Theory ... ... and	Monday	7.30–8.30	B 11	J. E. Holland
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.	7.30–10.0	B 33	——
99BC	Workshop Theory ... ... and	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	——
98C	Fitting and Turning	Wed.	7.30–10.0	B 29	——
99AC	Workshop Theory ... ... and	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	——
	FOURTH YEAR:				
102	Fitting and Turning	Friday	7.30–10.0	B 32	J. E. Holland
103	Workshop Theory ... ... and	Monday	8.35–9.35	B 9	——
104	Workshop Calculations ...	Monday	7.30–8.30	B 9	——
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

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 — 1A & 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	E. J. Kennedy
147/1	Workshop Drawing	Monday	7.30–9.30	D 19	E. J. Kennedy
	SECOND YEAR:				
146/2	Patternmaking	Tues., Thur.	7.30–9.30	D 19	E. J. Kennedy
147/2	Workshop Drawing ...	Monday	7.30–9.30	D 19	E. J. Kennedy
	THIRD YEAR:				
146/3	Patternmaking	Tues., Thur.	7.30–9.30	D 19	E. J. Kennedy
147/3	Workshop Drawing	Monday	7.30–9.30	D 19	E. J. Kennedy

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		Mr. Duffy
	Trade Theory	Tuesday	7.30–9.30		Mr. Buckley
	SECOND YEAR—B:				
	Trade Practice	Monday	7.30–9.30		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		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		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:			LINEN HALL	
174/5	Trade Practice	Monday	7.30–9.30		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		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

WM. WARREN & SON LTD. DUBLIN