

1959

## Engineering: Courses and Timetables Session 1959-60

City of Dublin Vocational Education Committee

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BRENDAN KEYES.

CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE

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DEPARTMENT OF  
ENGINEERING

COLLEGE OF TECHNOLOGY  
BOLTON STREET, DUBLIN

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Please do not take.

P. O'Duffy  
Generation  
Dept.

★  
Rathmines  
Miss Ryan

Courses and Timetables

SESSION 1959-60

## CALENDAR—SESSION 1959-60

- 1959—SEPT. 7 Monday - - Enrolment commences for :  
Diploma Course in Engineering;  
Part-time Day Engineering  
Courses; Part-time Day Courses  
for Trade Apprentices.
- 8 Tuesday - - Engineering "Sandwich" Course  
resumes work.
- 14 Monday - - Part-time Day Trade Apprentice  
Courses commence work.
- 21 Monday - - Enrolment commences for Evening  
Courses; Part-time Day Engi-  
neering Courses commence work.
- 28 Monday - - Evening Courses commence work.
- OCT. 5 Monday - - Diploma Course in Engineering  
commences work.
- DEC. 8 Tuesday - - *Feast of the Immaculate Concep-  
tion.* All Day Classes closed.
- 18 Friday - - Final Class meetings before Christ-  
mas Vacation.
- 1960—JAN. 4 Monday - - All Classes resume work after  
Christmas Vacation.
- MAR. 17 Thursday - - *St. Patrick's Day.* School closed.
- APRIL 12 Tuesday - - Final Class meetings before Easter  
Vacation. Final meetings of  
Evening Classes.
- 25 Monday - - Day Classes resume work, after  
Easter Vacation.
- MAY 26 Thursday - - *Ascension Day.* School closed.
- 28 Saturday - - Final Class meetings of Diploma  
Engineering Course.
- JUNE 6 Monday - - *Whit Monday.* School closed.
- 16 Thursday - - *Feast of Corpus Christi.* School  
closed.
- 30 Thursday - - Summer Term closes, except where  
otherwise arranged.

## COLLEGE OF TECHNOLOGY

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*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.

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## ENGINEERING DEPARTMENT

*Head of Department :*

THE VICE-PRINCIPAL

*Assistant Head of Department :*

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

*Head of Motor Car Engineering Division :*

J. GUIRKE (Acting)

*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.

## 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/5-2 : Second Year

Subject	Hours per Week
Mathematics .....	5
English .....	5
Mechanics .....	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 .....	5
Applied Mechanics .....	4
Applied Heat .....	2
Electricity .....	3
Experimental Physics .....	3
Chemistry .....	3
Engineering Theory .....	1
Workshop Technology .....	1
Practical Engineering .....	3
Philosophy .....	1
German (Technical) .....	1

Note: In addition to the above, students must attend Evening Workshop Classes for periods as directed.

### Course D/42 (A) : Second Year

Subject	Hours per Week
Mathematics .....	5
Engineering Drawing and Graphics .....	5
Applied Mechanics .....	5
Applied Heat and Heat Engines .....	2
Principles of Electricity .....	4
Physics .....	3
Chemistry .....	3
Workshop Technology .....	1
Practical Engineering .....	3
Philosophy .....	1
German (Technical) .....	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 subjects of the Common Preliminary Examination.

(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 and Structural Design .....	4
Properties and Strength of Materials .....	3
Machine Design .....	4
Applied Thermodynamics .....	5
Electrotechnology .....	3
Mechanics of Fluids .....	2
Metrology and Machine Tools .....	1
Philosophy .....	1
German (Technical) .....	1

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

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
Internal Combustion Engines	3
Steam	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
Internal Combustion Engines	3
Steam	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 (9.30 a.m. to 5.0 p.m.) per week.

PART-TIME COURSE IN STRUCTURAL ENGINEERING

Course D/42 (C)

Subject	Hours per Week
Strength of Materials	2
Theory of Structures	2

Notes: (1) These classes are normally held on Saturday mornings, 9.0 a.m. to 1.0 p.m.

(2) Students who wish to attend additional Evening Classes should make application at the beginning of the session.

## ENGINEERING "SANDWICH" COURSES

### Course D/42 (D)

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.

### 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	D7
	11.00-12.30	Fitting and Turning	Mr. Hunt	D7
	2.00- 3.30	Fitting and Turning	Mr. Hunt	D7
	3.30- 5.00	Fitting and Turning	Mr. Hunt	D7
Wednesday	9.30-11.00	Fitting and Turning	Mr. Hunt	D7
	11.00-12.30	Fitting and Turning	Mr. Hunt	D7
	2.00- 3.30	Fitting and Turning	Mr. Hunt	D7
	3.30- 5.00	Fitting and Turning	Mr. Hunt	D7

#### FOURTH YEAR APPRENTICES

Monday	9.30-11.00	Fitting and Turning	Mr. Hunt	D7
	11.00-12.30	Fitting and Turning	Mr. Hunt	D7
	2.00- 3.30	Fitting and Turning	Mr. Hunt	D7
	3.30- 5.00	Fitting and Turning	Mr. Hunt	D7
Thursday	9.30-11.00	Fitting and Turning	Mr. Hunt	D7
	11.00-12.30	Fitting and Turning	Mr. Hunt	D7
	2.00- 3.30	Fitting and Turning	Mr. Hunt	D7
	3.30- 5.00	Fitting and Turning	Mr. Hunt	D7

#### FIFTH YEAR APPRENTICES

Day	Time	Subject	Teacher	Room
Tuesday	9.30-11.00	Fitting and Turning	Mr. Hunt	D7
	11.00-12.30	Fitting and Turning	Mr. Hunt	D7
	2.00- 3.30	Fitting and Turning	Mr. Hunt	D7
	3.30- 5.00	Fitting and Turning	Mr. Hunt	D7

Motor Mechanics' Work—Course D/142A

Class No.	Subject	Day	Hour	Room	Teacher
	<b>FIRST YEAR:</b>				
	Garage Practice ... ..	Friday	9.30-12.30	C 15	R. Dowling
	or				
	Workshop Practice ... ..	Friday	9.30-12.30	D 8	T. Giblin
	Motor Engineering (Lecture)	Friday	2.00-3.30	B 15	—
	Mechanical Drawing ... ..	Friday	3.30-5.00	C 2	—
2	Heat ... ..	Tuesday	7.00-8.30	A 7	P. Coffey
3	Mechanics ... ..	Tuesday	8.30-10.0	B 12	E. P. Dunne
4	Mathematics ... ..	Friday	7.00-8.30	B 12	W. Doherty
	<b>SECOND YEAR—A:</b>				
	Garage Practice ... ..	Monday	2.00-5.00	C 15	R. Dowling
	or				
	Workshop Practice ... ..	Monday	2.00-5.00	D 8	T. Giblin
	Motor Engineering (Lecture)	Monday	9.30-11.0	B 15	—
	Mechanical Drawing ... ..	Monday	11.0-12.30	C 2	—
6	Heat ... ..	Tuesday	8.30-10.0	A 7	P. Coffey
7	Mechanics ... ..	Tuesday	7.00-8.30	B 12	E. P. Dunne
8	Mathematics ... ..	Friday	8.30-10.0	B 12	W. Doherty
	<b>SECOND YEAR—B:</b>				
	Garage Practice ... ..	Friday	2.00-5.00	C 15	R. Dowling
	or				
	Workshop Practice ... ..	Friday	2.00-5.00	D 8	T. Giblin
	Motor Engineering (Lecture)	Friday	9.30-11.0	B 15	—
	Mechanical Drawing ... ..	Friday	11.0-12.30	C 2	—
6	Heat ... ..	Tuesday	8.30-10.0	A 7	P. Coffey
7	Mechanics ... ..	Tuesday	7.00-8.30	B 12	E. P. Dunne
8	Mathematics ... ..	Friday	8.30-10.0	B 12	W. Doherty
	<b>THIRD YEAR:</b>				
	Garage Practice ... ..	Thurs.	2.00-5.00	C 15	R. Dowling
	or				
	Workshop Practice ... ..	Thurs.	2.00-5.00	D 8	T. Giblin
	Motor Engineering (Lecture)	Thurs.	9.30-12.30	B 15	—
	and Technical Drawing ...	Thurs.			
153	Automobile Electricity ...	Thurs.	8.30-10.0	A 8	C. Bryan
	<b>FOURTH YEAR:</b>				
	Garage Practice ... ..	Wed.	2.00-5.00	C 15	R. Dowling
	or				
	Workshop Practice ... ..	Wed.	2.00-5.00	D 8	T. Giblin
	Motor Engineering (Lecture)	Wed.	9.30-12.30	B 15	—
	and Technical Drawing ...	Wed.			
160	Automobile Electricity ...	Friday	8.30-10.0	A 8	C. Bryan
	<b>FIFTH YEAR:</b>				
	Garage Practice ... ..	Tuesday	2.00-5.00	C 15	J. Guirke
	or				
	Workshop Practice ... ..	Tuesday	2.00-5.00	D 8	T. Giblin
	Motor Engineering (Lecture)	Tuesday	9.30-12.30	B 15	—
	and Technical Drawing ...	Tuesday			
167	Automobile Electricity ...	Tuesday	8.30-10.0	A 8	C. Bryan

Motor Mechanics' Work—Course D/142B

Class No.	Subject	Day	Hour	Room	Teacher	
	<b>FIRST YEAR—A:</b>					
	Garage Practice ... ..	Monday	9.30-12.30	C 15	R. Dowling	
	or					
	Workshop Practice ... ..	Monday	9.30-12.30	D 8	J. Guirke	
152	Motor Engineering (Lecture)	—A ... ..	Thursday	7.00-8.30	B 15	T. Giblin
153	Automobile Electricity—A ...	Thursday	8.30-10.0	A 8	C. Bryan	
156	Engineering Science ... ..	Monday	7.00-10.0	B 15	E. P. Dunne	
	<b>FIRST YEAR—B:</b>					
	Garage Practice ... ..	Friday	2.00-5.00	C 15	R. Dowling	
	or					
	Workshop Practice ... ..	Friday	2.00-5.00	D 8	T. Giblin	
154	Motor Engineering (Lecture)	—B ... ..	Thursday	8.30-10.0	B 15	T. Giblin
155	Automobile Electricity—B ...	Thursday	7.00-8.30	A 8	C. Bryan	
156	Engineering Science ... ..	Monday	7.00-10.0	B 15	E. P. Dunne	
	<b>SECOND YEAR—A:</b>					
	Garage Practice ... ..	Monday	9.30-12.30	C 15	R. Dowling	
	or					
	Workshop Practice ... ..	Monday	9.30-12.30	D 8	J. Guirke	
159	Motor Engineering (Lecture)	—A ... ..	Friday	7.00-8.30	B 15	T. Giblin
160	Automobile Electricity—A ...	Friday	8.30-10.0	A 8	C. Bryan	
163	Engineering Science ... ..	Wed.	7.00-10.0	B 15	P. Coffey	
	<b>SECOND YEAR—B:</b>					
	Garage Practice ... ..	Monday	2.00-5.00	C 15	R. Dowling	
	or					
	Workshop Practice ... ..	Monday	2.00-5.00	D 8	T. Giblin	
161	Motor Engineering (Lecture)	—B ... ..	Friday	8.30-10.0	B 15	T. Giblin
162	Automobile Electricity—B ...	Friday	7.00-8.30	A 8	C. Bryan	
163	Engineering Science ... ..	Wed.	7.00-10.0	B 15	P. Coffey	
	<b>SECOND YEAR—C:</b>					
	Garage Practice ... ..	Friday	9.30-12.30	C 15	R. Dowling	
	or					
	Workshop Practice ... ..	Friday	9.30-12.30	D 8	T. Giblin	
161	Motor Engineering (Lecture)	—B ... ..	Friday	8.30-10.0	B 15	T. Giblin
162	Automobile Electricity—B ...	Friday	7.00-8.30	A 8	C. Bryan	
163	Engineering Science ... ..	Wed.	7.00-10.0	B 15	P. Coffey	
	<b>THIRD YEAR—A:</b>					
	Garage Practice ... ..	Tuesday	2.00-5.00	C 15	T. Giblin	
	or					
	Workshop Practice ... ..	Tuesday	2.00-5.00	D 8	—	
166	Motor Engineering (Lecture)	—A ... ..	Tuesday	7.00-8.30	B 15	J. Guirke
167	Automobile Electricity—A ...	Tuesday	8.30-10.0	A 8	J. N. Brooks	
170	Engineering Science ... ..	Friday	7.00-10.0	C 6	C. Bryan	

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

Class No.	Subject	Day	Hour	Room	Teacher
	THIRD YEAR—B:				
	Garage Practice ... ..	Tuesday	9.30-12.30	C 15	R. Dowling
	or				
	Workshop Practice ... ..	Tuesday	9.30-12.30	D 8	T. Giblin
168	Motor Engineering (Lecture)				
	—B ... ..	Tuesday	8.30-10.0	B 18	J. N. Brooks
169	Automobile Electricity—B ...	Tuesday	7.00-8.30	A 6	C. Bryan
170	Engineering Science ... ..	Friday	7.00-10.0	C 6	—
	THIRD YEAR—C:				
	Garage Practice ... ..	Thursday	9.30-12.30	C 15	R. Dowling
	or				
	Workshop Practice ... ..	Thursday	9.30-12.30	D 8	J. Guirke
168	Motor Engineering (Lecture)				
	—B ... ..	Tuesday	8.30-10.0	B 18	J. N. Brooks
169	Automobile Electricity—B ...	Tuesday	7.00-8.30	A 6	C. Bryan
170	Engineering Science ... ..	Friday	7.00-10.0	C 6	—
	FOURTH YEAR—A:				
	Garage Practice ... ..	Thursday	9.30-12.30	C 15	R. Dowling
	or				
	Workshop Practice ... ..	Thursday	9.30-12.30	D 8	J. Guirke
173	Motor Engineering (Lecture)	Friday	7.00-10.0	C 5	J. N. Brooks
174	Automobile Electricity ... ..	Wed.	7.30-9.30	A 7	C. Bryan
175	Heat Engines and Applied Mechanics ... ..	—	7.00-10.0	—	—
	FOURTH YEAR—B:				
	Garage Practice ... ..	Wed.	2.00-5.00	C 15	R. Dowling
	or				
	Workshop Practice ... ..	Wed.	2.00-5.00	D 8	J. Guirke
173	Motor Engineering (Lecture)	Friday	7.00-10.0	C 5	J. N. Brooks
174	Automobile Electricity ... ..	Wed.	7.30-9.30	A 7	C. Bryan
175	Heat Engines and Applied Mechanics ... ..	—	7.00-10.0	—	—
	FOURTH YEAR—C:				
	Garage Practice ... ..	Wed.	9.30-12.30	C 15	J. Guirke
	or				
	Workshop Practice ... ..	Wed.	9.30-12.30	D 8	T. Giblin
173	Motor Engineering (Lecture)	Friday	7.00-10.0	C 5	J. N. Brooks
174	Automobile Electricity ... ..	Wed.	7.30-9.30	A 7	C. Bryan
175	Heat Engines and Applied Mechanics ... ..	—	7.00-10.0	—	—
	FIFTH YEAR—A:				
	Garage Practice ... ..	Tuesday	9.30-12.30	C 15	R. Dowling
	or				
	Workshop Practice ... ..	Tuesday	9.30-12.30	D 8	J. Guirke
178	Motor Engineering (Lecture)	Wed.	7.00-10.0	C 6	—
179	Automobile Electricity ... ..	—	7.30-9.30	—	J. N. Brooks
—	Heat Engines and Applied Mechanics ... ..	—	7.00-10.0	—	—

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

Class No.	Subject	Day	Hour	Room	Teacher
	FIFTH YEAR—B:				
	Garage Practice ... ..	Tuesday	2.00-5.00	C 15	J. Guirke
	or				
	Workshop Practice ... ..	Tuesday	2.00-5.00	D 8	T. Giblin
178	Motor Engineering (Lecture)	Wed.	7.00-10.0	C 6	J. N. Brooks
179	Automobile Electricity ... ..	—	7.30-9.30	—	—
—	Heat Engines and Applied Mechanics ... ..	—	7.00-10.0	—	—
	FIFTH YEAR—C:				
	Garage Practice ... ..	Wed.	9.30-12.30	C 15	J. Guirke
	or				
	Workshop Practice ... ..	Wed.	9.30-12.30	D 8	T. Giblin
178	Motor Engineering (Lecture)	Wed.	7.00-10.0	C 6	J. N. Brooks
179	Automobile Electricity ... ..	—	7.30-9.30	—	—
—	Heat Engines and Applied Mechanics ... ..	—	7.00-10.0	—	—



# EVENING COURSES

## CERTIFICATE ENGINEERING COURSE

### Course E/41

#### ELEMENTARY STAGE

Class No.	Subject	Day	Hour	Room	Teacher
<b>FIRST YEAR :</b>					
1	Machine Drawing ... ..	Wednesday	7.30-9.30	B 11	B. E. Fee R Daly
2	Heat ... ..	Tuesday ...	7.00-8.30	A 7	P. Coffey
3	Mechanics ... ..	Tuesday	8.30-10.0	B 12	E. P. Dunne
4	Mathematics ... ..	Friday ..	7.00-8.30	B 12	W. J. O'Doherty
<b>SECOND YEAR :</b>					
5	Machine Drawing ... ..	Thursday *	7.30-9.30	B 11	B. E. Fee J. Lawless
6	Heat ... ..	Tuesday ...	8.30-10.0	A 7	P. Coffey
7	Mechanics ... ..	Tuesday ...	7.00-8.30	B 12	E. P. Dunne
8	Mathematics ... ..	Friday ...	8.30-10.0	B 12	W. J. O'Doherty

#### INTERMEDIATE STAGE

<b>THIRD YEAR :</b>					
9	Machine Drawing and Construction	Monday ..	7.30-9.30	B 11	J. Roche
10	Heat and Heat Engines ... ..	Friday ...	7.00-8.30	A 7	J. McCabe
11	Applied Mechanics ... ..	Friday ...	8.30-10.0	A 12	E. P. Dunne
12	Mathematics ... ..	Thursday	7.30-9.30	C 22	W. J. O'Doherty

#### ADVANCED STAGE

<b>FOURTH YEAR :</b>					
13	Machine Construction and Design	Tuesday	7.00-10.0	B 10	J. C. Fitzpatrick
14	Heat Engines ... ..	Friday ...	8.30-10.0	A 7	J. McCabe
15	Applied Mechanics ... ..	Friday ...	7.00-8.30	A 12	E. P. Dunne
16	Mathematics ... ..	Thursday	7.30-9.30	B 10	T. Lenihan

### Higher Technological Stage

<b>FIFTH YEAR :</b>					
17	Machine Design ... ..	Friday ...	7.00-10.0	A 4	J. C. Fitzpatrick
18	Internal Combustion Engines ...	Wednesday	7.00-8.30	A 4	F. Drechsler
19	Steam ... ..	Wednesday	8.30-10.0	A 4	F. Drechsler
20	Strength of Materials ... ..	Monday	7.00-8.30	A 4	—
21	Mathematics ... ..	Monday	8.30-10.0	A 4	T. Lenihan
22	Theory of Machines ... ..	Tuesday ...	7.00-8.30	A 4	—
<b>SIXTH YEAR :</b>					
23	Machine Design ... ..	Friday ...	7.00-10.0	A 4	J. C. Fitzpatrick
24	Internal Combustion Engines ...	Wednesday	7.00-8.30	A 4	F. Drechsler
25	Steam ... ..	Wednesday	8.30-10.0	A 4	F. Drechsler
26	Strength of Materials ... ..	Monday	7.00-8.30	A 4	—
27	Mathematics ... ..	Monday	8.30-10.0	A 4	T. Lenihan
28	Theory of Machines ... ..	Tuesday ...	8.30-10.0	A 4	—

**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.

\* Notify students  
\*\* Notify teachers & students

# GRADUATE ENGINEERING COURSE

## Course E/42

(For the Examinations of Professional Bodies)

#### PRELIMINARY YEAR:

Class No.	Subject	Day	Hour	Room	Teacher
29	English ... ..	Tuesday	7.30-9.30	B 26	—
30	Physics ... ..	Monday	8.30-10.00	A 8	J. Tighe
31	Mechanics ... ..	Monday	7.00-8.30	A 8	A. Whelan
32	Mathematics ... ..	Wednesday	7.00-10.00	A 8	W. J. O'Doherty

#### FIRST YEAR:

33	Engineering Drawing ...	Wednesday	7.00-10.00	B 10	J. Roche
34	Heat, Light and Sound ...	Monday	7.00-8.30	A 7	J. Tighe
35	Mechanics ... ..	Monday	8.30-10.00	A 12	A. Whelan
36	Mathematics ... ..	Friday	7.00-8.30	B 10	A. Whelan
37	Principles of Electricity ...	Tuesday	7.00-8.30	A 8	J. Tighe

#### SECOND YEAR:

38	Engineering Drawing ...	Monday	7.00-10.00	B 10	J. C. Fitzpatrick
39	Heat, Light and Sound ...	Thursday	8.30-10.00	A 6	J. McCabe
40	Mechanics ... ..	Thursday	7.00-8.30	A 12	J. McCabe
41	Mathematics ... ..	Friday	8.30-10.00	B 10	A. Whelan
42	Principles of Electricity ...	Tuesday	8.30-10.00	A 8	J. Tighe

#### Civil Engineering

43	Mathematics ... ..	Friday	7.00-8.30	C 22	J. Lenihan *
11	Applied Mechanics ... ..	Friday	8.30-10.00	A 12	E. P. Dunne
44	Strength of Materials ...	Monday	7.00-8.30	C 6	R. Holloway
45	Theory of Structures ...	Monday	8.30-10.0	C 6	R. Holloway

#### THIRD YEAR:

17	Machine Design ... ..	Friday	7.00-10.00	A 4	J. C. Fitzpatrick
18	Internal Combustion Engines ...	Wednesday	7.00-8.30	A 4	F. Drechsler
19	Steam ... ..	Wednesday	8.30-10.00	A 4	F. Drechsler
20	Strength of Materials ...	Monday	7.00-8.30	A 4	—
21	Mathematics ... ..	Monday	8.30-10.00	A 4	T. Lenihan
22	Theory of Machines ... ..	Tuesday	7.00-8.30	A 4	—
53	Industrial Administration ...	Thursday	7.00-10.00	B 8	—

\* Notify teachers & students

THIRD YEAR :

Civil Engineering

Class No.	Subject	Day	Time	Room	Teacher
46	Strength of Materials ...	Wednesday	7.00-8.30	A 12	—
47	Theory of Structures ...	Wednesday	8.30-10.0	A 12	—
15	Applied Mechanics ...	Friday	7.00-8.30	A 12	E. P. Dunne
48	Structural Engineering ...	Monday	7.00-10.0	A 11	S. Kenny
58	Mathematics ...	Friday	8.30-10.0	C 22	J. Lenihan

FOURTH YEAR:

23	Machine Design ...	Friday	7.00-10.00	A 4	J. C. Fitzpatrick
24	Internal Combustion Engines ...	Wednesday	7.00-8.30	A 4	F. Drechsler
25	Steam ...	Wednesday	8.30-10.00	A 4	F. Drechsler
26	Strength of Materials ...	Monday	7.00-8.30	A 4	—
27	Mathematics ...	Monday	8.30-10.00	A 4	T. Lenihan
28	Theory of Machines ...	Tuesday	8.30-10.00	A 4	—
53	Industrial Administration	Thursday	7.00-10.00	B 8	—

Civil and Structural Engineering

* 49	<del>Municipal Engineering</del> ...	Tuesday	7.00-10.0	—	—
* 50	Concrete — Plain and Reinforced ...	Friday	7.00-10.0	A 5	H. Clifton X
* 51	Surveying and Levelling ...	Wed.	7.30-10.0	B 29	W. O'Brien
* 52	Drawing, Specification and Quantities ...	Thursday	8.30-10.0	A 12	H. Clifton X
* 20	Strength of Materials ...	Monday	7.00-8.30	A 4	—
* 48	Structural Engineering ...	Monday	7.00-10.0	A 11	S. Kenny X

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

THIRD AND FOURTH YEARS: Heating, Ventilating and Air Conditioning

54	Heating and Hot Water Service ...	MON	7.30-9.30	—	—
55	Ventilation and Air Conditioning ...	TUES	7.30-9.30	—	—
56	Mechanics of Fluids ...	THUR	7.30-9.30	—	—
57	Boiler House Work ...	FRI	7.30-9.30	—	—

1959-60

AUTOMOBILE ENGINEERING COURSE

Course E/43

Class No.	Subject	Day	Hour	Room	Teacher
FIRST YEAR:					
156	Engineering Science ...	Monday	7.00-10.0	B 15	E. P. Dunne
1	Machine Drawing ...	Wed.	7.30-9.30	B 11	B. E. Fee
152	Motor Engineering (Lecture)	Thursday	7.00-8.30	B 15	T. Giblin
29	English ...	Tuesday	7.30-9.30	B 26	—
4	Mathematics ...	Friday	7.00-8.30	B 12	W. Doherty
SECOND YEAR:					
163	Engineering Science ...	Wed.	7.00-10.0	B 15	P. J. Coffey
5	Machine Drawing ...	Thursday	7.30-9.30	B 11	B. E. Fee
159	Motor Engineering (Lecture)	Friday	7.00-8.30	B 15	T. Giblin
29	English ...	Tuesday	7.30-9.30	B 26	—
8	Mathematics ...	Friday	8.30-10.0	B 12	W. Doherty
THIRD YEAR:					
170	Engineering Science ...	Friday	7.00-10.0	C 6	—
166	Motor Engineering (Lecture)	Tuesday	7.00-8.30	B 15	J. N. Brooks
12	Mathematics ...	Thursday	7.30-9.30	C 22	W. Doherty
FOURTH YEAR:					
175	Heat Engines and Applied Mechanics ...	—	7.00-10.0	—	—
173	Motor Engineering (Lecture)	Friday	7.00-10.0	C 5	J. N. Brooks
FIFTH YEAR:					
178	Motor Engineering (Lecture)	Wed.	7.00-10.0	C 6	J. N. Brooks
180	Workshop Organisation and Administration ...	—	—	—	—

Notify Students & Teachers  
 Mr Jones (H.A.O'Neill)

# AIRCRAFT MAINTENANCE LICENCE COURSE

## Course E/44

### FIRST YEAR:

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

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

Class No.	Subject	Licence Category	Day	Time	Room	Teacher
144	Aero-Engineering ...	A & C	Wed.	7.00-10.0	—	P. I. Taylor
145	Aero-Engineering ...	A	Mon.	7.00-10.0	—	D. Tighe
146	Aero-Engineering ...	C	Fri.	7.00-10.0	—	D. Tighe

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

Class No.	Subject	Licence Category	Day	Time	Room	Teacher
147	Aero-Engineering ...	A & C	Mon.	7.00-10.0	—	P. I. Taylor
148	Aero-Engineering ...	A	Thur.	7.00-10.0	—	P. I. Taylor
149	Aero-Engineering ...	C	Wed.	7.00-10.0	—	T. Mehigan

## WELDING TECHNOLOGY

Class No.	Subject	Licence Category	Day	Time	Room	Teacher
175	Welding Technology ...	...	Friday	7.30-9.30	C 9	—

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

# TRADE COURSES

## Fitting and Turning—Course E/141

### JUNIOR STAGE

Class No.	Subject	Day	Hour	Room	Teacher
FIRST YEAR:					
60	Fitting and Turning ... 1 A	Thursday	7.30-9.30	D 5	W. de Renzy
61	Workshop Theory ... 1 A	Tuesday ...	8.35-9.35	C 5	D. Aungier
62	Workshop Calculations ... 1 A	Tuesday ...	7.30-8.30	C 21	—
63	Mechanical Drawing ... 1 A	Wednesday	7.30-9.30	B 13	J. Lawless
64	Fitting and Turning ... 1 B	Wednesday	7.30-9.30	D 5	W. De Renzy
65	Workshop Theory ... 1 B	Tuesday ...	7.30-8.30	C 5	D. Aungier
66	Workshop Calculations ... 1 B	Tuesday ...	8.35-9.35	C 21	—
67	Mechanical Drawing ... 1 B	Friday ...	7.30-9.30	B 13	J. Roche
68	Fitting and Turning ... 1 C	Tuesday ...	7.30-9.30	D 5	R. Tynan
69	Workshop Theory ... 1 C	Thursday	8.35-9.35	C 5	D. Aungier
70	Workshop Calculations ... 1 C	Thursday	7.30-8.30	C 21	—
67	Mechanical Drawing ... 1 C	Friday ...	7.30-9.30	B 13	J. Roche
71	Fitting and Turning ... 1 D	Monday ...	7.30-9.30	D 5	R. Tynan
72	Workshop Theory ... 1 D	Thursday	7.30-8.30	C 5	D. Aungier
73	Workshop Calculations ... 1 D	Thursday	8.35-9.35	C 21	—
63	Mechanical Drawing ... 1 D	Wednesday	7.30-9.30	B 13	J. Lawless
SECOND YEAR:					
74	Fitting and Turning ... 2 A	Tuesday ...	7.30-9.30	D 7	G. Aungier, W. De Renzy
75	Workshop Theory ... 2 A	Wednesday	7.30-8.30	C 5	J. Gribben
76	Workshop Calculations ... 2 A	Wednesday	8.35-9.35	C 21	—
77	Mechanical Drawing ... 2 A	Friday ...	7.30-9.30	B 11	B. E. Fee, J. Lawless
78	Fitting and Turning ... 2 B	Monday ...	7.30-9.30	D 7	G. Aungier, W. De Renzy
79	Workshop Theory ... 2 B	Wednesday	8.35-9.35	C 5	J. Gribben
80	Workshop Calculations ... 2 B	Wednesday	7.30-8.30	C 21	—
81	Mechanical Drawing ... 2 B	Thursday...	7.30-9.30	B 13	J. Roche
82	Fitting and Turning ... 2 C	Thursday...	7.30-9.30	D 7	G. Aungier, R. Tynan
79	Workshop Theory ... 2 C	Wednesday	8.35-9.35	C 5	J. Gribben
80	Workshop Calculations ... 2 C	Wednesday	7.30-8.30	C 21	—
77	Mechanical Drawing ... 2 C	Friday ...	7.30-9.30	B 11	B. E. Fee, J. Lawless

SENIOR STAGE

Class No.	Subject	Day	Hour	Room	Teacher
83	THIRD YEAR: Fitting and Turning ... ..	Wednesday	7.30-9.30	D 7	G. Aungier, R. Tynan
84	Workshop Theory ... .. and	Monday ...	7.30-8.30	C 5	R. Stephen
85	Workshop Calculations ... ..	Monday ...	8.35-9.35	C 21	—
86	Machine Drawing ... ..	Tuesday ...	7.30-9.30	B 13	J. Roche
87	FOURTH YEAR: Fitting and Turning ... ..	Friday ...	7.30-9.30	D 7	G. Aungier, R. Tynan
88	Workshop Theory ... .. and	Monday ...	8.35-9.35	C 5	R. Stephen
89	Workshop Calculations ... ..	Monday ...	7.30-8.30	C 21	—
90	Machine Drawing ... ..	Tuesday ...	7.30-9.30	B 11	B. Fee, J. Lawless
87	FIFTH YEAR Fitting and Turning ... ..	Friday ...	7.30-9.30	D 7	G. Aungier, R. Tynan

1959-60

Motor Mechanics' Work—Course E/142

Class No.	Subject	Day	Hour	Room	Teacher
	FIRST YEAR:				
150	Garage Practice ... ..	Wed.	7.30-9.30	C 15	A. Harbron
151	Workshop Practice ... ..	Tuesday	7.30-9.30	D 8	A. Harbron
152	Motor Engineering (Lecture) —A ... ..	Thursday	7.00-8.30	B 15	T. Giblin
153	Automobile Electricity—A ...	Thursday	8.30-10.0	A 8	C. Bryan
154	Motor Engineering (Lecture) —B ... ..	Thursday	8.30-10.0	B 15	T. Giblin
155	Automobile Electricity—B ...	Thursday	7.00-8.30	A 8	C. Bryan
156	Engineering Science ... ..	Monday	7.00-10.0	B 15	E. P. Dunne
	SECOND YEAR:				
157	Garage Practice ... ..	Tuesday	7.30-9.30	C 15	R. J. Dowling
158	Workshop Practice ... ..	Friday	7.30-9.30	D 8	A. Harbron
159	Motor Engineering (Lecture) —A ... ..	Friday	7.00-8.30	B 15	T. Giblin
160	Automobile Electricity—A ...	Friday	8.30-10.0	A 8	C. Bryan
161	Motor Engineering (Lecture) —B ... ..	Friday	8.30-10.0	B 15	T. Giblin
162	Automobile Electricity—B ...	Friday	7.00-8.30	A 8	C. Bryan
163	Engineering Science ... ..	Wed.	7.00-10.0	B 15	P. J. Coffey
	THIRD YEAR:				
164	Garage Practice ... ..	Thursday	7.30-9.30	C 15	A. Harbron
165	Workshop Practice ... ..	Monday	7.30-9.30	D 8	A. Harbron
166	Motor Engineering (Lecture) —A ... ..	Tuesday	7.00-8.30	B 15	J. N. Brooks
167	Automobile Electricity—A ...	Tuesday	8.30-10.0	A 8	C. Bryan
168	Motor Engineering (Lecture) —B ... ..	Tuesday	8.30-10.0	B 15	J. N. Brooks
169	Automobile Electricity—B ...	Tuesday	7.00-8.30	A 8	C. Bryan
170	Engineering Science ... ..	Friday	7.00-10.0	C 6	—
	FOURTH YEAR:				
171	Garage Practice ... ..	Thursday	7.30-9.30	C 15	—
172	Workshop Practice ... ..	Monday	7.30-9.30	D 8	—
173	Motor Engineering (Lecture)	Friday	7.00-10.0	C 5	J. N. Brooks
174	Automobile Electricity ... ..	Wed.	7.30-9.30	A 7	C. Bryan
175	Heat Engines and Applied Mechanics ... ..	—	7.00-10.0	—	—
	FIFTH YEAR:				
176	Garage Practice ... ..	Thursday	7.30-9.30	C 15	—
177	Workshop Practice ... ..	Monday	7.30-9.30	D 8	—
178	Motor Engineering (Lecture)	Friday	7.00-10.0	—	J. N. Brooks
179	Automobile Electricity ... ..	—	7.30-9.30	C 6	—
	Heat Engines and Applied Mechanics ... ..	—	7.00-10.0	—	—

### Oxy-Acetylene and Electric Welding—Course E/143

Class No.	Subject	Day	Time	Room	Teacher
FIRST YEAR:					
120	Oxy-Acetylene and Electric Welding ... ..	Monday	7.30-9.30	D 1	P. Cowley
121	Welding Theory ... ..	Thursday	7.00-8.30	A 7	—
SECOND YEAR:					
122	Oxy-Acetylene and Electric Welding ... .. 2 A	Wednesday	7.30-9.30	D 1	P. Cowley
123	Welding Theory ... .. 2 A	Thursday	7.00-9.30	A 7	—
THIRD AND FOURTH YEARS:					
124	Oxy-Acetylene and Electric Welding ... ..	Friday	7.30-9.30	D 1	P. Cowley
125	Welding Theory ... ..	Wednesday	7.30-9.30	D 4	—

### Patternmaking—Course E/144

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

### Foundry Work—Course E/145

IRONMOULDING					
94	Foundry Work—Practical ... ..	Friday	7.30-9.30	D 4	P. Ryan
95	Foundry Work—Theory ... ..	Monday	7.30-9.30	D 4	F. C. Smith
63	Mechanical Drawing ... ..	Wednesday	7.30-9.30	B 13	J. Lawless

### Refresher Course in Welding (4 weeks' duration)

126	Welding—Practice I ... ..	Tuesday	7.30-9.30	D 1	—
127	Welding—Practice II ... ..	Thursday	7.30-9.30	D 1	—
128	Welding—Theory ... ..	Friday	7.30-9.30	—	—

### Brass Finishing—Course E/146

Class No.	Subject	Day	Hour	Room	Teacher
FIRST YEAR:					
100	Brassfinishing—Practical... <i>Free</i>	Monday	7.30-9.30	C 10	M. O'Carroll
69	Workshop Theory ... ..	Thursday	8.35-9.35	C 5	D. Aungier
70	Workshop Calculations ... ..	Thursday	7.30-8.30	C 21	—
63	Mechanical Drawing ... ..	Wednesday	7.30-9.30	B 13	J. Lawless
SECOND YEAR:					
101	Brassfinishing—Practical (Eng.)	Friday	7.30-9.30	D 5	M. O'Carroll
102	Brassfinishing—Practical (Art)	Thursday	7.30-9.30	C 10	—
79	Workshop Theory ... ..	Wednesday	8.35-9.35	C 5	J. Gribben
80	Workshop Calculations ... ..	Wednesday	7.30-8.30	C 21	—
81	Mechanical Drawing ... ..	Thursday	7.30-9.30	B 13	J. Roche
THIRD YEAR:					
101	Brassfinishing—Practical (Eng.)	Friday	7.30-9.30	D 5	M. O'Carroll
102	Brassfinishing—Practical (Art)	Thursday	7.30-9.30	C 10	—
84	Workshop Theory ... ..	Wednesday	7.30-8.30	C 5	J. Gribben
85	Workshop Calculations ... ..	Monday	8.35-9.35	C 21	—
86	Machine Drawing ... ..	Tuesday	7.30-9.30	B 13	J. Roche

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

### Boilermaking—Course E/147

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

Students are recommended to add a suitable class in Mathematics.

### Smithwork and Art Ironwork—Course E/148

107	Smithwork, Practical ... ..	Wednesday	7.30-9.30	D 16	A. J. Ward
108	Art Ironwork, Practical ... ..	Friday	7.30-9.30	D 16	A. J. Ward
87	Machine Drawing ... ..	Friday or	7.30-9.30	B 13	J. Roche
63	Machine Drawing ... ..	Wednesday	7.30-9.30	B 13	J. Lawless

Students are recommended to add a class in Design.

### Metal Plate Work—Course E/149

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

### Structural Steelwork—Course E/150

#### FIRST YEAR

137	Theory and Drawing ... ..	Tuesday	7.30-9.30	D 15	Mr. Shatwell
138	Practical ... ..	Friday	7.30-9.30	C 10	Mr. McGloughlin

#### SECOND YEAR

139	Theory & Drawing ... ..	Tuesday	7.30-9.30	D 15	Mr. Shatwell
140	Practical ... ..	Friday	7.30-9.30	C 10	Mr. McGloughlin

### Diesel Maintenance—Course E/151

133	Diesel Maintenance—Theory I	Wednes.	7.00-8.30	A 5	P. MacLoughlin
134	Diesel Maintenance—Practical I ... ..	Thursday	7.00-10.0	C 15	J. MacNamara
135	Diesel Maintenance—Theory II	Wednes.	8.30-10.0	A 5	P. MacLoughlin
136	Diesel Maintenance—Practical II ... ..	Tuesday	7.00-10.0	C 15	J. MacNamara

### PHYSICAL EDUCATION (Men)—Course 201

130	Physical Training Div. I ...	Monday	7.30-9.30	C 9	M. C. Doogan
131	Physical Training Div. II ...	Tuesday	7.30-9.30	C 9	M. C. Doogan
132	Physical Training Div. III ...	Wednesday	7.30-9.30	C 9	M. C. Doogan

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