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## **Engineering: Courses and Timetables Session 1964-65**

City of Dublin Vocational Education Committee

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CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE

# DEPARTMENT OF ENGINEERING

# COLLEGE OF TECHNOLOGY BOLTON STREET, DUBLIN 1

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Courses and Timetables SESSION 1964-65

## CALENDAR—SESSION 1964-65

1

14

CALENDAI	A-SESSION 1904-05
54—SEPT. 7 Monday -	Enrolment commences for:
	Preliminary and Diploma Courses in Engineering; Part-time Day Engin- eering 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 com- mence work.
	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.
	Automobile Technicians' Course com- mences.
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.
	All Classes resume work after Christmas Vacation.
	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 Engin- eering Course.
JUNE 7 Monday -	Whit Monday. School closed.
17 Thursday -	Feast of Corpus Christi. School closed.
	source of compassion str. Ochoor 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:

	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

	Hours per Week				
Mathematics					7
Engineering Drawing					4
Applied Mathematics					4
Experimental Physics					9
Chemistry					3
Practical Engineering a	nd Wo	rkshop T	echnolog	y	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

ing much relate	Subject	NA.	aunuon.	Hours per Week
Mathematics				 5
Engineering Drawing				 5
Applied Mechanics				 4
Principles of Electricity	·			 4
Physics		*****		 4
Chemistry				 3
Workshop Technology				 planetro 1. bill
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 I	)/42	(A) :	Third	Year
----------	------	-------	-------	------

I Der anstantano?	Hours per Week				
Mathematics					2
Theory of Machines				I see lo	4
Theory of Structures					3
Properties and Strength	of Ma	aterials a	and Meta	llurgy	5
Machine Design					3
Applied Thermodynami	ics				4
Electrotechnology					3
Mechanics of Fluids	******		1110	******	3
Metrology and Machine	Tools				1
Philosophy					i
German (Technical)					1
Engineering Administra	tion				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

Subj	ect		of the first of the	Hours per Week
Applied Mathematics				2
Theory of Machines				4
Structures				3
Properties and Strength of	Materials a	nd Meta	llurgy	4
Machine Design				4
Applied Thermodynamics				4
Electrical Engineering				3
Mechanics of Fluids				3
Metrology and Machine	Cools			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

	Hours per Week					
2					Contraction of	
Draughtsmans	hip and	Drawing	Office P	ractice		14
Draughtsmans Workshops—'	Theory :	and Pract	ice			5
					5 11 10 10 10	3
English		•••••				3
English Mathematics						3
English Mathematics Science						333
English Mathematics						3 3 1

a industry.

## SANDWICH COURSES

#### AUTOMOBILE ENGINEERING TECHNICIANS

Course D/44

ю	ur	se	DI	

Conference in the second second	3	Hours of Instruction per W		
Subject	5	1st Year	2nd Year	3rd Year
Garage Practice		41	41	41
Motor Workshop Practice		41	41	42 0
Motor Engineering (Lecture)		3	3	onhis4nlpni
Physics		4 <sup>1</sup> / <sub>2</sub> 3 2 2 2	2	manute the second
Chemistry		2	2	CPERIOL CONTR
Mechanics		2	2	T. GOVERNO A
Engineering Science		-	- onini	6 Inve
Mathematics		4	3	3
Engineering Drawing		5	4	3
Engineering Economics		_	2	2
Principles of Management		-	-	2
English		2	2	all'I - and
Philosophy		_1	1	1
Physical Training		mollipus p	norme [mi] pu	ecempter, a

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

#### AIRCRAFT TECHNICIANS

#### Course D/45

		min	Hours of	f Instruction	per Week
Subject		1st Year	2nd Year	3rd Year	
Physics			3		-
Mechanics		*****	3	2	2
Mathematics			3	2	11 12 1ag
Drawing		*****	3	4	3
Chemistry		1.1.1.1	2	West Hardwart	to patrone
Aero Laboratory			4	5	6
Workshop Technology			2	4	4
Workshops			10	11	11
English and Report Writ	ting		2	2	2
Religious Instruction			1	1.	1
Physical Training			1	1 00000	and fully in
Heat and Heat Engines			-	2	molt Same
Materials and Metallurg	V		-	-	2
French			1	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

C 11 .	Hours	s of Instru	ction per	Week
Subject	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	11	11/2	11	11
Workshop Practice	8	8	8	8
Physical Training	1	1	1	1
English	1	1	1	1
Religious Instruction	1	1	1	1

Course D/46 (A)

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

611		-		Hours pe	er Week
Subjec	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
	*****	*****		5	5
Engineering Drawing				2	2
Engineering Design				5	5
English and Report Writing				2	2
Religious Instruction				1	1
Physical Training			10000	1	1
Physical Training Power House Practice				13	11
rower nouse Practice	******	******		17	12

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

Sof.	and the	Subject		- mail	Hours per Week
Mathematics			 		11
Mechanics			 		11/2
Heat			 		11
Machine Drav	wing		 		11/2
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

1.50 <sup>th</sup>	Subjec	t		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"

	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

and Labour dit.	Subject	in neu ti	CRI LAL	01 "As s	Hours per Week
Heat and Heat Engines		*****			2
Applied Mechanics Light and Sound Principles of Electricity		******			3
Light and Sound			*** (int )	e	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

House and All	Subje	ct	and des	(næle )	Hours per Week
Mathematics					1 <sup>1</sup> / <sub>2</sub> * 3
Theory of Machines				*****	3
Applied Thermodynam	nics	122203			3
Theory of Machines Applied Thermodynam Electrotechnology					3
Strength of Materials	-				5
Machine Construction	and I			- Vilbiti	3*
Industrial Administration					3*

\* Evening Class.

Course D/42 (B) : Fourth Year

active sectors and to	Subject	of path in	hine and		Hours per Week
Mathematics					1½* 3
Theory of Machines					3
Applied Thermodynam	ics				3
Electrotechnology				0.040	3
Strength of Materials				CONTROL IN	5
Machine Design			*****		3*
Industrial Administratio					3*
industrial Administratio	on	*****			5*
* Evening Class.			-	-	and the second

At the end of the Second Year ...... Intermediate Stage

1 XC CU	ic chu	01 11	ie becond	TCOL	 - 0.0 4 5 5 5	1 May and	cu Drayc	
At th	ne end	of th	he Fourth	Year	 *****	Higher	Technological	Stage
-	1000				 Contraction of the local distance of the loc	a fail a fail	and the second se	the Carlot

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

		Hours of Instruction per Week					
Subject	2nd Year	3rd Year	4th Year	5th Year			
Workshop Practice	 	3	3	2	-		
Toolroom Work	 	-		1	3		
Workshop Technology	 	13	15	15	11		
Technical Drawing	 	13	15	-	-		
Drawing and Tool Design	 	-	-	13	11		

### STRUCTURAL STEELWORK—Course D/150 (LINEN HALL)

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

Students attend one day (62 hours) and one evening (2 hours) per week.

#### METAL PLATE WORK-Course D/149

Subject	Hours of Instruction per Week		
- Dela Contra Contractor and Contract	2nd Year	3rd Year	
Metal Plate Work Practical Metal Plate Theory and Drawing	3 3	3 3	
	aduet, etc.		
9			

### MOTOR MECHANICS' WORK-Course D/142A

No.	Subject .	Day	Hour	Room	Teacher
	FIRST YEAR:		The second		No N
	Garage Practice or	Monday	2.00-5.00	D 16	
-	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	D6	
133	Engineering Science Mathe-				
	matics	Monday	7.00-10.0	D 30	J. Curran
128	Automobile Electricity	Thursday	7.00-8.30	D 16	
	SECOND YEAR-A:		-		arrest lands
	Garage Practice or	Friday	9.30-12.30	D 17	
	Motor Workshop Practice	Friday	9.30-12.30	D 24	
	Motor Engineering (Lecture)	Friday	3.30-5.00	C 24	
	Mechanical Drawing	Friday	2.00-3.30	D6	
134	Engineering Science Mathe-			24	
100	matics	Friday	7.00-10.0	D 30	J. Butler
129	Automobile Electricity	103-1	7.00-8.30	D 16	6
	SECOND YEAR-B:	AN WEIGHT			Marrie Pro-
	Garage Practice	Friday	9.30-12.30	D 17	
	or	Construction .			1.11
	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 Mathe-	Monday	7 00 10 0	В9	To be a started
129	matics Automobile Electricity	Friday	7.00-10.0 7.00-8.30	D 16	
129		1 may	7.00-0.00	10 10	and the second
	THIRD YEAR-A:				
	Garage Practice or	Tuesday	2.00-5.00	D 17	
	Motor Workshop Practice	Tuesday	2.00-5.00	D 24	
135	Motor Engineering (Lecture) Engineering Science Mathe-	Tuesday	9.30-12.30	C 24	J. Guirke
	matics	Thursday	7.00-10.0	B 13	E. P. Dunne
130	Automobile Electricity	Tuesday	7.30-8.30	-	
	THIRD YEAR-B:	ACTIV IN	a contra contra	a straight	
	Garage Practice or	Tuesday	2.00-5.00	D 17	
	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 Mathe-				
135	matics Automobile Electricity	Thursday	7.00-10.0	B 13	E. P. Dunne
100					
	FOURTH YEAR-A:	m. 1	0.00 5.00	DIT	
	Garage Practice or	Thursday	2.00-5.00	D 17	Con These is
	Motor Workshop Practice	Thursday	2.00-5.00	D 24	
136	Motor Engineering (Lecture) Heat Engines and Applied	Thursday	9.30-12.30	C 24	J. Guirke
130	Mechanics	Wed.	7.00-10.0	A 26	J. Butler
131	Automobile Electricity	Monday	7.30-9.30	D 16	C. Bryan
131	Garage Organisation and Management — A, B, C	and the second second	100 2100		

### 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	_
	Motor Workshop Practice Motor Engineering (Lecture) Heat Engines and Applied	Thursday Thursday	2.00–5.00 9.30–12.30	D 24 C 24	J. Guirke
136	Mechanics Automobile Electricity	Wed. Monday	7.00-10.0	A 26 D 16	J. Butler C. Bryan
131 139	Garage Organisation and Management – A, B, C		7.30-9.30	D 16	
	and D	Tuesday	7.30-9.30	-	T. Carroll
137	FIFTH YEAR—A: Engine Testing and Tuning Motor Engineering (Lecture) Heat Engines and Applied	Wed. Wed.	9.30–12.30 2.00–5.00	D 16 C 24	J. Guirke
132 140	Mechanics Automobile Electricity Garage Organisation and	Tuesday	7.30-9.30	D 16	C. Bryan
	Management — A, B, C and D	Thursday	7.30-9.30	C 28	T. Foley
	FIFTH YEAR-B: Engine Testing and Tuning Motor Engineering (Lecture)	Wed. Wed.	2.00-5.00 9.30-12.30	D 16 C 24	J. Guirke
137	Heat Engines and Applied Mechanics	Tel Block	Carl Carl		
132 140	Automobile Electricity Garage Organisation and	Tuesday	7.30-9.30	D 16	C. Bryan
110	Management – A, B, C and D	Thursday	7.30–9.30	C 28	T. Foley

## MOTOR MECHANICS' WORK-Course D/142B

lass No.	Subject	Day	Hour	Room	Teacher
	FIRST YEAR-A:	(underse)			Character 1
	Garage Practice	Monday	7.00-10.0	D 17	
	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		and the second		and table
	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:	- maint			( and the second
	Garage Practice or	Monday	7.00-10.0	D 17	
	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	and the second			the state of the s
	Mathematics	Wed.	7.00-10.0	C 28	D. McConnell
128	Automobile Electricity	Tuesday	3.30-5.00	C 24	J. O'Brien

### Motor Mechanics' Work-Course D/142B-contd.

lass No.	Subject	Day	Hour	Room	Teacher
	Allena Para	-	TT THE PARTY	-	Contraction of the
	FIRST YEAR-C: Garage Practice	Friday	7.00-10.0	D 17	
	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				JIO DIRE
****	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:			A 1151	A DESCRIPTION OF
	Garage Practice or	Friday	7.00-10.0	D 17	
	Motor Workshop Practice	Friday	7.00-10.0	D 24	11 - 200 1
123 133	Motor Engineering (Lecture) Engineering Science and	Friday	9.30-11.0	C 24	J. O'Brien
	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	100-000
	Motor Workshop Practice	Monday	9.30-12.30	B 34	and a second
124	Motor Engineering (Lecture)	Friday	7.00-8.30	C 24	M. Kelly
134	Engineering Science and				
129	Mathematics Automobile Electricity	Monday Friday	7.00-10.0 8.30-10.0	C 28	D. McConnell
149	Automobile Electricity	Friday	8.30-10.0	C 28	and the second s
	SECOND YEAR-B:				C. mar
	Garage Practice	Tuesday	9.30-12.30	D 16	
	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		MARDED.	103	
129	Mathematics Automobile Electricity	Monday Friday	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	Tre <del>nte</del> -
	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		( and the second se		a said a
129	Mathematics Automobile Electricity	Monday	7.00-10.0	C 28	D. McConnell
129	Automobile Electricity	Friday	8.30-10.0	C 28	and the second second
	SECOND YEAR-D:				
	Garage Practice	Friday	9.30-12.30	D 16	and a second
	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				DMG
129	Mathematics Automobile Electricity	Monday Friday	7.00-10.0 7.00-8.30	C 28 C 28	D. McConnell
107	Automobile Electricity	rnday	1.00-8.50	0.20	DPH T

## Motor Mechanics' Work-Course D/142B-contd.

lass No.	Subject	Day	Hour	Room	Teacher
	SECOND YEAR-E:				
	Garage Practice	Friday	2.00-5.00	D 17	12
-	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		7.30-10.0	C 28	D. McConnell
129	Mathematics Automobile Electricity	Monday Friday	7.00-8.30	C 28	D. Meconnen
129	Automobile Electricity	Trady			
	SECOND YEAR-F:			D 17	C CLARKER -
	Garage Practice	Friday	2.00-5.00	DI	
	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		7.00-10.0	C 28	D. McConnell
100	Mathematics	Monday Friday	7.00-10.0	C 28	D. McConnen
129	Automobile Electricity	I'lluay	1.00 0.00	I GEACE	
	THIRD YEAR-A:			D 17	COLUMN STREET
	Garage Practice	Monday	9.30-12.30	D 17	1
	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		triling, i		and health into
	Mathematics	Tuesday	8.30-10.0	C 28	and the life
130	Automobile Electricity	Tuesday	0.00-10.0		
	THIRD YEAR-B:		and the second	D 15	(mainten)
	Garage Practice	Monday	2.00-5.00	D 17	IT MANY
	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				1
120	Mathematics	Tuesday	8.30-10.0	C 28	A Street and
130	Automobile Electricity	Tuesday	0.00 1010		and party of
	THIRD YEAR-C:				and and the
	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				
120	Mathematics	Tuesday	8.30-10.0	C 28	ALCONTRACT.
130	Automobile Electricity	Incsuay	8.30-10.0	1	and strength
	THIRD YEAR-D:	and house	1	1.000	W would be
	Garage Practice	Wed.	9.30-12.30	D 17	A CONTRACTOR
	or Motor Workshop Practice	Wed.	9.30-12.30	D 24	and head it
125	Motor Workshop Practice Motor Engineering (Lecture)	Tuesday	8.30-10.0	C 24	M. Kelly
135	Engineering Science and		Selection and	intro,	The summer of
	Mathematics	The 1	T 00 0 00	C.00	Manual M.
130	Automobile Electricity	Tuesday	7.00-8.30	C 28	State Party of the

## Motor Mechanics' Work-Course D/142B-contd.

lass No.	Subject	Day	Hour	Room	Teacher
	THIRD YEAR-E:			-	IL CONTRACTOR
	Garage Practice	Wed.	2.00-5.00	D 17	-
	Motor Workshop Practice	Wed.	2.00-5.00	D 24	a Wincoutry 1
125 135	Motor Engineering (Lecture) Engineering Science and Mathematics	Tuesday	8.30-10.0	C 24	M. Kelly
130	Automobile Electricity	Tuesday	7.00-8.30	C 28	1
	THIRD YEAR—F: Garage Practice	Thursday	9.30-12.30	D 17	
	Motor Workshop Practice	Thursday	9.30-12.30	D 24	
125 135	Motor Engineering (Lecture) Engineering Science and Mathematics	Tuesday	8.30-10.0	C 24	M. Kelly
130	Automobile Electricity	Tuesday	7.00-8.30	C 28	
	FOURTH YEAR-A: Garage Practice or	Monday	9.30-12.30	D 17	
	Motor Workshop Practice	Monday	9.30-12.30	D 24	
126 136	Motor Engineering (Lecture) Heat Engines and Applied	Monday	7.00-10.0	C 24	-
1.01	Mechanics	Wed.	7.00-10.0	A 26	
131 139	Automobile Electricity Garage Organisation and Management — A, B, C and D	- Tuesday	7.30-9.30	-	T. Carroll
	FOURTH YEAR-B:	Tuesday	7.30-9.30		1. Carron
	Garage Practice	Monday	2.00-5.00	D 17	
	Motor Workshop Practice	Monday	2.00-5.00	D 24	
126 136	Motor Engineering (Lecture) Heat Engines and Applied	Monday	7.00-10.0	C 24	2
131	Mechanics	Wed.	7.00-10.0	A 26	1.11.12.12.2
131	Automobile Electricity Garage Organisation and Management — A, B, C and D				
	BOTTOMIT VIELD O		122 100	-	1.1.1
	FOURTH YEAR-C: Garage Practice	Tuesday	9.30-12.30	D 17	
	Motor Workshop Practice	Tuesday	9.30-12.30	D 24	1 march
126	Motor Engineering (Lecture)	Monday	7.00-10.0	C 24	
136	Heat Engines and Applied Mechanics	P Edmin	the second		-
131	Automobile Electricity	-	-	-	and the second second
139	Garage Organisation and Management — A, B, C and D	1		1.4	

## Motor Mechanics' Work-Course D/142B-contd.

Class	and shares a second second second				
No.	Subject	Day	Hour	Room	Teacher
	FOURTH YEAR-D:				A DIANT TO
	Garage Practice or	Wed.	9.30-12.30	D 17	
	Motor Workshop Practice	Wed.	9.30-12.30	D 24	
126	Motor Engineering (Lecture)	Monday	7.00-10.0		1
136	Heat Engines and Applied				and the second s
	Mechanics				in the second
131	Automobile Electricity			-	
139	Garage Organisation and				
	Management - A, B, C			-	the second second
	and D		-		
	FOURTH YEAR-E:				
	Garage Practice	117 . 3	2.00-5.00	D 17	and the second second
	or or	wea.	2.00-5.00	Du	Steel 14
	Motor Workshop Practice	Wed.	2.00-5.00	D 24	
126	Motor Engineering (Lecture)		7.00-10.0		A
136	Heat Engines and Applied	monday			
-	Mechanics				
131	Automobile Electricity	100		1.22	
139	Garage Organisation and	1		1000	( () - () () () () () () () () () () () () ()
	Management - A, B, C			1.1.1.1	1010 0000 000
	and D		-		
		The second second			1.
	FOURTH YEAR-F:				
	Garage Practice	Thursday	9.30-12.30	D 17	101
	Motor Workshop Practice	Thursday	9.30-12.30	D 24	
126	Motor Engineering (Lecture)	Monday	7.00-10.0	_	and the state of the
136	Heat Engines and Applied				and the second se
	Mechanics	here here		11520	
131	Automobile Electricity			-	and series 12
139	Garage Organisation and	10000		1000	£
	Management - A, B, C	1.1.	1.		
	and D	-			
	FIFTH YEAR-A:			Der	
127	Engine Testing and Tuning		2.00-5.00	D 16 C 24	
127	Motor Engineering (Lecture) Heat Engines and Applied	Wed.	7.00-10.0	0.24	
1.57	Mechanics	-			
132	Automobile Electricity	1	1.112	12.11	A Diversity of
140	Garage Organisation and		ries	249	
1902	Management - A, B, C				
	and D	Thursday	7.30-9.30	C 28	T. Foley
					and others
	FIFTH YEAR-B:	6.5 G. 11			-
1.00	Engine Testing and Tuning		2.00-5.00	D 21	
127	Motor Engineering (Lecture)	Wed.	7.00-10.0	C 24	
137	Heat Engines and Applied				THE REAL PROPERTY.
100	Mechanics	-	-	-	
132 140	Automobile Electricity	-	-	-	
140	Garage Organisation and				and the second second
	Management - A, B, C		7.30-9.30		T. Foley
	and D	Thursday			

#### Motor Mechanics' Work-Course D/142B-contd.

Class No.	Subject	Day	Hour	Room	Teacher
	FIFTH YEAR-C:	and the second second		1000	The second second
	Engine Testing and Tuning	Wed.	2.00-5.00	D 16	
127	Motor Engineering (Lecture)	Wed.	7.00-10.0	C 24	A DECK
137	Heat Engines and Applied				Courses 20
	Mechanics	-	-		
132	Automobile Electricity		- 100		PH
140	Garage Organisation and	burnet and		1 million	LUX
	Management - A, B, C				Barrow MI
	and D	Thursday	7.30-9.30	C 28	T. Foley
		- matter are a		1	and others
	FIFTH YEAR-D:			and the second	
	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	1			
	Mechanics	-			
132	Automobile Electricity	-			
140	Garage Organisation and				And the second se
	Management A, B, C	Local Distances	A COLUMN		With the second second
	and D	Thursday	7.30-9.30	C 28	T. Foley
			and the second second	1.0	and others
	FIFTH YEAR-E:				Acres in the second sec
	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			L. Gym	and the second
	Mechanics	-		-	and the second s
132	Automobile Electricity		-	-	
140	Garage Organisation and			TATI	ACCOUNT OF THE OWNER.
	Management - A, B, C	Contractor of the			T. manual .
	and D	Thursday	7.30-9.30	C 28	T. Foley
	Lines Caldina in the		L. Lealance	1.000	and others
	FIFTH YEAR-F:	1	in the second second	and the second	AND READER NO.
	Engine Testing and Tuning	Thursday	2.00-5.00	D 21	and the state
127	Motor Engineering (Lecture)	Wed.	7.00-10.0		
137	Heat Engines and Applied	1	and have	Sec. 1	And and a second
	Mechanics	-	-	-	
132	Automobile Electricity		1 1 1	1.00	
140	Garage Organisation and	1 million to an		20.0	diameter in the second
	Management - A, B, C	1	1	10.00	The second second
	and D	Thursday	7.30-9.30	C 28	T. Foley
	and the second second second	1000	Summing the second	-	and others

### WHOLETIME PRELIMINARY MOTOR ENGINEERING COURSE-D/142C

#### (One month (September) 30 hours per Week)

Subje	ct	-	lst 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-S.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	
5.A	Mathematics		Friday	7.00-10.0	B 12	W. J. O'Doherty
6	Engineering Drawing		Monday	7.00-10.0	Λ1	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			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	A2	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	1

#### 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	.47	N. Gillespie
26	Thermodynamics	. Wed.	7.00-10.0	C1	P. Dunphy
27	Strength of Materials	. Thursday	7.00-10.0	B 10	J. Daly
28	Mechanics of Fluids or	. Friday	7.00-i0.0	C1	
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	A7	
34	Mathematics and Statistics	Wed.	7.00-8.30	A 21	J. Broderick
35	Engineering Administration	Thursday	7.00-10.0		
		Friday			

## 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	.4 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	A1	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	.1 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		 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	C1	
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		7.00-10.0	A2	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	2000	H. Clifton
38 39	Municipal Engineering Concrete Plain and Rein-	Tuesday	7.00-10.0	C1	
39		Friday	7.00-10.0	D1	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	111 IK
4B/C	Practical Chemistry		Friday	7.00-10.0	A 23	
5C	Mathematics		Tuesday	7.00-10.0	B 10	
	Particular Denning		Monday	7.00-10.0	A1	J. Roche
6 FIRST	Engineering Drawing	]	Monday	7.00-10.0	1	J. Roche
FIRST	YEAR:				3431	
FIRST	YEAR: Applied Mechanics		Thursday	8.30-10.0 8.30-10.0	A 22 A 21	P. Brunkard D. Reid
FIRST 8 9	YEAR: Applied Mechanics Mathematics		Thursday Tuesday	8.30-10.0	A 22	P. Brunkard
FIRST	YEAR: Applied Mechanics		Thursday	8.30–10.0 8.30–10.0	A 22 A 21	P. Brunkard D. Reid

19	Mathematics	 Tuesday	7.00-8.30	A 21	D. Reid
21	Strength of Materials	 Friday	8.30-10.0	B 9	J. Daly
		 Friday	7.00-8.30	B 9	J. Daly
	Engineering Materials	Tuesday	8.30-10.0		J. Harrington
			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	C1	P. Dunphy
28 40	Mechanics of Fluids Heating, Combustion and	CE CONTRACTOR DE LA CONTRACTÓR DE LA CONTRA	7.00-10.0	C1	-
	Air Conditioning	3 Conden	7.00-10.0	C1	

# WORKSHOP METHODS AND SERVICES Course E/49

Class No.	Subject	Day	Hour	Room	Teacher
41	Workshop Method and Services	Friday	7.00-10.0	А7	P. McLoughlin

## CERTIFICATE ENGINEERING COURSE

## Course E/42

ELEMENTARY STAGE

Class No.		Subjec	t		Day	Hour	Room	Teacher
	FIRST YEA	R:					and	
50	Machine Dra	awing		 	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 Y	EAR:				Constanting of		
53	Machine Dr.	awing		 	Tues.	7.00-10.00	B 16	B. E. Fee J. Lawles
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

56 57	THIRD YEAR: Machine Drawing & Construction Heat and Heat Engines	Friday	7.00-10.00 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	B9	W. J. O'Doherty

#### ADVANCED STAGE

60	FOURTH YEAR: 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	A7	N. Gillespie
26	Thermodynamics	 Wed.	7.00-10.0	C1	D. Healy
27	Strength of Materials	 Thursday	7.00-10.0	B 10	J. Daly
28	Mechanics of Fluids	 Friday	7.00-10.0	C1	
36	Engineering Design	 Friday	7.00-10.0	A2	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. Course E/43

Class No.	Subject	Day	Hour	Room	Teacher
	FIRST YEAR:			Incide M	a start and
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	-	5116-1
123	Motor Engineering (Lecture)	Torne	8.30-10.0	-	744
	SECOND YEAR:				10.01
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		Autor and
117	Engineering Drawing	- 11	7.00-10.0		ing a Cassard State
119	English		8.30-10.0	-	A DECEMBER OF STREET, STRE
124	Motor Engineering (Lecture)	Friday	7.00-8.30	C 24	M. Kelly
	THIRD YEAR:	-			
122	Mathematics	Tuesday	8.30-10.0	-	and the second se
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:	in met		(VICES)	TATE CONTRA
136	Heat Engines and Applied				
31	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	T Lucit			
	Management - A, B, C				and the second se
	and D	Tuesday	7.30-9,30	-	T. Carroll
	FIFTH YEAR:	a - Third		201030	HARD ADDIES
137	Heat Engines and Applied				
	Mechanics		7.00-10.0		and the second second
127	Motor Engineering (Lecture)	Wed.	7.00-10.0	C 24	
140	Garage Organisation and		1000	Sec. 1	
	Management - A, B, C	E. 1.	5 4		
	and D	Thursday	7.30-9.30	C 28	T. Foley and others

## FIRST YEAR: Course E/44

Class No.	Subject		Day	Hour	Room	Teacher
66A	Metrology	 	Wed.	7.00-8.30	B 9	H. J. O'Neill
67.A	Metallurgy	 	Wed.	8.30-10.0	A 23	F. Wight
68A	Toolroom Practice	 	Thursday	7.00-10.0	B 32	H. J. O'Neill
SECON	ID YEAR:					
66B	Metrology	 	Wed.	8.30-10.0	B9	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	B9	H. J. O'Neill

## WELDING TECHNICIANS Course E/48

Class No.	Subject	Day	Time	Room	Teacher
35	Welding Methods & Appli- cations	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

FIRST YEAR:

Course E/46

Class No.		Licence Category	Day	Time	Room	Teacher
70/1	Engineering Drawing, Materials & Processes		Mon.	7.30-9.30	B 16	D. McMahon
70/2	Aero-Engineering	A&C	Tues.	7.30-9.36		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 (Chip-	1		1	1	1
71/2	Aero-Engineering (Chip- munk) Aero Engineering (Gypsy Major)	A&C	Wed.	7.30-9.30	D3	J. Mangan
11/2	Major)	A&C	Fri.	7.30-9.30	D3	J. Mangan

#### SECOND YEAR (VICKERS VISCOUNT-ROLLS ROYCE DART):

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

#### SECOND YEAR (FOKKER FRIENDSHIP-ROLLS ROYCE DART):

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

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

	Contraction of the	1	10	1		Aer Lingu	1
74/1	Aero-Engineering		A	Tues.	7.30-9.30	Training	P. I. Taylor
74/2	Aero-Engineering		С	Thurs.	7.30-9.30	School,	D. Brennan
74/3	Aero-Engineering		A	Fri.	7.30-9.30	Dublin	P. I. Taylor
7414	A		C	Wed.	7.30-9.30	Airport	D. Brennan
2.50	Aero-Engineering	GLA					
SECO	1	-				CARVAIR-I	

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

## DIESEL MAINTENANCE

## Course E/47

Class No.	Subject	Day	Hour	Room	Teacher
81A 82A	FIRST YEAR-A: Diesel Maintenance-Theory Diesel Maintenance-	Wed.	7.00-8.30	B 10	J. McNamara
0474	Practical	Monday	7.00-10.0	D 21	V. Hand
	FIRST YEAR-B:	Cymbros (C)	A Distance in a	100	white the
81B 82B	Diesel Maintenance-Theory Diesel Maintenance-	Wed.	7.00-8.30	B 10	J. McNamara
02.0	Practical	Tuesday	7.00-10.0	D 21	V. Hand
	SECOND YEAR-A:	-	at and a	100	elected and
83A	Diesel Maintenance-Theory Diesel Maintenance-	Wed.	8.30-10.0	B 10	J. McNamara
84A	Practical	Thursday	7.00-10.0	D 21	J. McNamara
	SECOND YEAR-B:	1-1-1-27		entit	adabaya 30
83B 84B	Diesel Maintenance—Theory Diesel Maintenance—	Wed.	8.30-10.0	B 10	J. McNamara
04D		Fri.	7.00-10.0	D 21	J. McNamara

All Marked Transfer 2011 Transfer Tr

# TRADE COURSES

Fitting and Turning-Course E/141

Class No.	Subject	Day	Hour	Room	Teacher
-	FIRST YEAR:	1-30	-	renthin	Noniti Al
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	A9	J. Lawless
90B	Fitting and Turning-1B	Wed.	7.30-10.0	B 34	P. Deane
91B	Workshop Theory-1B	Tuesday	7.30-8.30	B 11	T. Murphy
92B	Workshop Calculations-1B	Tuesday	8.35-9.35	B 12	P. Kenny
93AB	Mechanical Drawing-1B	Monday	7.30-9.30	A9	J. Lawless
90C	Fitting and Turning-1C	Tuesday	7.30-10.0	B 34	P. Gaynor
91C	Workshop Theory-1C	Thursday	8.35-9.35	B 11	T. Murphy
92C	Workshop Calculations-1C	Thursday	7.30-8.30	B 12	P. Kenny
93CD	Mechanical Drawing-1C	Friday	7.30-9.30	A9	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	A9	J. Roche
90E	Fitting and Turning-1E	Monday	7.30-10.0	B 34	P. Deane
91E	Workshop Theory-1E	Friday	7.30-8.30	D4	
916	and		1.30-0.30		
92E	Workshop Calculations-1E	Friday	8.30-9.30	D5	
93EF	Mechanical Drawing-1E	Wed.	7.30-9.30	A9	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	D4	-
92F	Workshop Calculations-1F	Friday	7.30-8.30	D5	
93EF	Mechanical Drawing-1F	Wed.	7.30-9.30	A 9	S. O'Farrell
	SECOND YEAR:	APRIL - HE	and the second second	No. of Concession, Name	
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	A9	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	A9	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	D4	
96C	Workshop Calculations-2C	Wed.	7.30-8.30	D5	
97CD	Mechanical Drawing-2C	Friday	7.30-9.30	AI	B. E. Fee
94D	Fitting and Turning-2D	Monday	7.30-9.30	B 29	J. E. Holland
95D		Wed.	8.30-9.30	D4	J. D. Hondand
350	Workshop Theory-2D and	H Cu.			
96D	Workshop Calculations-2D	Wed.	7.30-8.30	D5	-
97CD	Mechanical Drawing-2D	Friday	7.30-9.30	A1	B. E. Fee
					J. Lawless

### Fitting and Turning-Course E/141-contd.

Class No.	Subject	Day	Hour	Room	Teacher
	THIRD YEAR:			1.HA2	A. JEHIA
98A		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	Alor	J. Roche
	Constant and a second desired of	a gallongs	1.1.1	A 11	and and and a
98B	Fitting and Turning	Wed.	7.30-10.0	B 33	140C Octo Action
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
101 AC	Machine Drawing	Tuesday	7.30-9.30	A 11 or A 1	nCD villing
98C	Fitting and Turning	Wed.	7.30-10.0	B 29	SUCOND.
99AC		Monday	8.30-9.30	B 11	T. Murphy
100C	Workshop Calculations .	Monday	7.30-8.30	B 12	P. Kenny
101BC	Machine Drawing FOURTH YEAR:	Tuesday	7.30-9.30	A 1 or A 11	and the dist
102		Friday	7.30-10.0	B 32	J. E. Holland
102		Monday	8.35-9.35	B 9	anderste Jack.
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:	S. Design			Welding

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

PRATY MAR Parameting \_\_\_\_\_ Theory Tues 7 20-520 [112] K. L. Kennels 1620 Workshop fraving \_\_\_\_\_ Maning 7.20 1.20 [12] [12] K. Kennels

## Motor Mechanics' Work-Course E/142

(Advanced Stage)

Class No.				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	D6	J. O'Brien
		Practice-Group			7.30-9.30	D 21	J. McGauran

for loss are remained to add a suitable state in Mechanical Draming of

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

Class No.	Subject	Day	Time	Room	Teacher
1	FIRST YEAR:	1		pi-	la su constante
140A	Oxy-Acetylene and Electric	c			
	Welding-1A	and a second sec	7.30-9 30	C 32	J. Quinn
140B	Oxy-Acetylene and Electric				and a second
and the second	Welding-1B		7.30-9.30	D 28	W. Carroll
141A/B				I DENT	100 and 100
-	1B		7.30-9.30	A 26	N. Mullen
140C	Oxy-Acetylene and Electri				
	Welding-1C		7.30-9.30	C 32	J. Quinn
140D	Oxy-Acetylene and Electri			D 28	
uco	difference of the second se	Tuesday	7.30-9.30 7.30-9.30	A 22	N. Murray
141C/D	Welding Theory	Monday	7.30-9.30	A 44	N. Mullen
1.00	SECOND YEAR:	1.000			
142A	Oxy-Acetylene and Electri	c			the party of the local division of the local
11011	Welding-2A		7.30-9.30	C 32	P. Cowley
142B	Oxy-Acetylene and Electri				1. comey
101707-0	Welding-2B	337 . 4	7.30-9.30	B 28	J. Quinn
143B	Welding Theory-2A & 21	B Friday	7.30-9.30	B 9	N. Mullen
1.0000000000	Contraction of Contract, Contract of Contract	a second		A STATE	Contraction and and a second
	THIRD YEAR:			1000	CONTRACTOR DATA
144	Oxy-Acetylene and Electri	c			and the part of the
	Welding	. Thursday	7.30-9.30	C 32	P. Cowley
144A	Welding Theory	Wed.	7.30-9.30	A 19	N. Mullen
	Sanding and Westman. Align	C. International	1.0	1.11.11.1	and the second of the
	FOURTH YEAR:	2 Condition of	2.3-2.21	1.000	section 10 1
145					
		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:			and the second		
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:			1. S.		and the second second
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		Mr. Duffy
	Trade Theory	•••	 Wed.	7.30-9.30	LL	Mr. Buckley
	SECOND YEAR-A	.:	and the second se		HA	
	Trade Practice	111	 Wed.	7.30-9.30	Z	Mr. Duffy
	Trade Theory		 Tuesday	7.30-9.30	LINEN	Mr. Buckley
	SECOND YEAR-E	:			ΓI	
	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. 26

Brass Finishing—Course E/146

Class No.	Subject	Day	Hour	Room	Teacher
	FIRST YEAR:			The state	-
150	Brassfinishing-Practical	Monday	7.30-9.30	L.H.	M. O'Carroll
91C	Workshop Theory and	Thurs.	8.35-9.35	B 11	T. Murphy
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 and	Wed.	8.35-9.35	B 11	T. Murphy
96B	Workshop Calculations	Wed.	7.30-8.30	B 12	I' Kenny
97B	Mechanical Drawing	Thurs.	7.30-9.30	A 9	J. Roche
	THIRD YEAR:			nimit	Immont
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 and	Monday	7.30-8.30	B 11	T. Murphy
100	Workshop Calculations	Monday	8.35-9.35	B 12	P Kenny
97B	Machine Drawing	Thurs.	7.30-9.30	A9	J. Roche

## Boilermaking—Course E/147

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

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

## Smithwork and Art Ironwork—Course E/148

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

## Metal Plate Work-Course E/149

Class No.	Subject	Day	Hour	Room	Teacher
	FIRST YEAR:		1.0.1	100	an marine
163	Metal Plate Work, Lectures and Drawing I		7.30-9.30	C4	J. Bryan
164	Metal Plate Work, Practical I				A. O'Toole J. Bryan
	SECOND YEAR:	10.00	H	(and	
165	Metal Plate Work, Lectures and Drawing II		7.30-9.30	C4	C. Devine
166	Metal Plate Work, Practical II		7.30-9.30	D 20	A. O'Toole M. Kane
	THIRD YEAR:	-W ()	-	(mail)	determine in
167	Metal Plate Work, Lectures and Drawing III		7.30-9.30	C4	J. Bryan
168	Metal Plate Work, Practical III		7.30-9.30		M. Kane C. Devine
	FOURTH YEAR:	S	200.00	12.0	n asin
169	Metal Plate Work, Lectures and Drawing IV		7.30-9.30	C4	A. O'Toole
170	Metal Plate Work, Practical IV	Friday	7.30-9.30	D 20	M. Kane C. Devine
	FIFTH YEAR:	and the sum of	1-10-000	the later	qualitation of the
171	Metal Plate Work, Lectures and Drawing V		7.30-9.30	CŦ	A. O'Toole
172	Metal Plate Work, Practical V		7.30-9.30	D 20	A. O'Toole M. Kane

## Structural Steelwork-Course E/150

	THIRD YEAR: Trade Practice Trade Theory and Drawing	Monday Wed.	7.30–9.30 7.30–9.30	IN HALL	Mr. McGloughlin Mr. Shatwell
174/4 173/4	FOURTH YEAR: Trade Practice Trade Theory and Drawing	Wed. Monday	7.30–9.30 7.30–9.30	LINE	Mr. McGloughlin Mr. Shatwell

## PHYSICAL EDUCATION (Men)-Course 201

176	Physical Physical Physical	Training	Div.	п		Tuesday	7.30-9.30	C 29	M. C. Doogan M. C. Doogan M. C. Doogan
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