
Prospectus: Kevin Street

Kevin Street College

1943

Curriculum and Time Table: Session 1943-44

City of Dublin Vocational Education Committee

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City of Dublin
Vocational Education Committee

SCOILEANNA CEÁRD-OIDEACÁIS
CATHAE ÁTA CLIAÉ

seisiún
1943-44



Session
1943-44

Institute of Science and Technology
KEVIN STREET

CURRICULUM AND TIME-TABLE

CALENDAR—SESSION 1943-1944

1943—SEPT.	6 MONDAY	Whole-time Day Schools open for enrolment, and Day Apprentice School resumes work.
"	13 MONDAY	Part-time Day Classes open for enrolment, and Whole-time Day Schools commence work.
"	20 MONDAY	Evening Classes open for enrolment, and Part-time Day Classes commence work.
"	27 MONDAY	Evening Classes commence work.
NOV.	1 MONDAY	<i>All Saints' Day.</i> Whole-time Day Schools, excepting Day Apprentice School and Special Classes, closed.
DEC.	8 WEDNESDAY	<i>Feast of Immaculate Conception.</i> Whole-time Day Schools, excepting Day Apprentice Schools and Special Classes, closed.
"	18 SATURDAY	Close of Christmas Term.
1944—JAN.	3 MONDAY	All classes resume work after Christmas Vacation.
"	6 THURSDAY	<i>Feast of the Epiphany.</i> Whole-time Day Schools, excepting Day Apprentice Schools and Special Classes, closed.
MAR.	17 FRIDAY	<i>St. Patrick's Day.</i> Schools closed.
APR.	4 TUESDAY	Close of Easter Term.
"	7 FRIDAY	<i>Good Friday.</i>
"	9 SUNDAY	<i>Easter Sunday.</i>
"	12 WEDNESDAY	All Evening Classes, Part-time Day Classes, Day Apprentice Schools, and Special Classes, resume work after Easter Vacation.
"	17 MONDAY	Whole-time Day Schools resume work following Easter Vacation.
"	28 FRIDAY	Evening Classes close, excepting where otherwise arranged.
MAY	18 THURSDAY	<i>Ascension Day.</i> Whole-time Day Schools, excepting Day Apprentice Schools and Special Classes, closed.
"	29 MONDAY	<i>Whit Monday.</i> Schools closed.
JUNE	8 THURSDAY	<i>Feast of Corpus Christi.</i> Whole-time Day Schools, excepting Day Apprentice Schools and Special Classes, closed.
"	17 SATURDAY	Irish Proficiency and General Proficiency Scholarship Examinations.
"	29 THURSDAY	<i>Feast of Saints Peter and Paul.</i> Whole-time Day Schools, excepting Day Apprentice Schools and Special Classes, closed.
JULY	1 SATURDAY	Close of Summer Term, excepting Day Apprentice Schools and Special Classes.
"	15 SATURDAY	Day Apprentice Schools and Special Classes close, excepting where otherwise arranged.

Schools closed on all Bank Holidays not specified in above Calendar.

THE CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE

COMMITTEE

- RT. HON. ALDERMAN MARTIN O'SULLIVAN, T.D., LORD MAYOR, Mansion House (Chairman).
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COUNCILLOR MICHAEL J. COLGAN, 6 Gardiner's Row.
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MR. HILARY WILLIAMS, 46 Lambay Road, Drumcondra.
MR. JOHN SWIFT, 37 Lower Gardiner Street.
MR. PADRAIG T. BREATHNACH, M.A., PH.D. F.C.P., M.R.I.A., H.D.E., 66 Iona Road, Glasnevin.

Offices:

THE TECHNICAL INSTITUTE,
BOLTON STREET, DUBLIN.

H. F. THUNDER,
Acting Chief Executive Officer

TECHNICAL INSTITUTE, KEVIN STREET LOCAL COMMITTEE

- RT. HON. ALDERMAN MARTIN O'SULLIVAN, T.D., LORD MAYOR, MANSION HOUSE (*ex-officio*).
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Rev. M. GERAGHTY, C.C., The Presbytery, High Street.
Mr. J. W. KELLY, 16 St. Joseph's Parade, Nelson Street.
Mr. J. ANDREWS, B.Sc., Messrs. A. Guinness, Son and Co., James Street.
Mr. JOHN SWIFT, 37 Lr. Gardiner Street.

E. MORTON, B.Sc., A.R.C.Sc.I.,
Hon. Secretary.

Technical Institute,
Kevin Street.
Tel No. 51801.

ADVISORY LOCAL SUB-COMMITTEE

BAKERY AND CONFECTIONERY TRADES

- Mr. J. SWIFT; Mr. P. HOGAN, Mr. M. CONROY; Mr. P. O'NEILL;
Mr. G. DALY; Mr. J. KELLY; Mr. L. KENNEDY and
Mr. H. E. O'DONOHUE.

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GENERAL REGULATIONS

DAY AND EVENING COURSES AND CLASSES

ADMISSION.

In general, applicants for admission to classes must not be under fourteen years of age.

ENTRANCE EXAMINATION.

Intending students may be required to pass an entrance test, or give evidence of a satisfactory standard of education. Introductory Courses are provided for those who fail to reach the entrance test standard.

ENROLMENT.

Whole-time Day Courses : Week commencing 6th September.
 Part-time Day Courses. Week commencing 13th September.
 Evening Courses : Week commencing 20th September.

COURSES.

The Courses as set out are not to be considered as arbitrary; the subjects may, with the sanction of the Principal, be varied.

TRADE CLASSES.

The Trade Classes are primarily intended for those engaged in the several trades; where possible separate classes for journeymen will be arranged in trade subjects.

ATTENDANCE.

Punctual and regular attendance of students will be insisted upon. Those who are absent from more than two consecutive class meetings, without assigning a satisfactory reason, may have their names removed from the Class Roll. When this has been done, students can be restored to their places only by the special permission of the Principal.

A class may be discontinued if an insufficient number of students join or attend; the number of evenings allotted weekly to a class may be reduced if there is a falling off in the attendance. The right is reserved to close classes for any other reason whatever.

DISCIPLINE.

Strict order must be observed at all times within the precincts of the school.

DAMAGE TO SCHOOL PROPERTY.

Students wilfully damaging School property may be required, on order of the Committee, to pay for such repairs or replacements as may be necessary.

CLOAKROOM AND BICYCLE HOUSES.

The authorities of the School do not accept responsibility for articles left in any part of the School premises.

BOOKS, STATIONERY AND EQUIPMENT.

Students are expected to provide themselves with such books, stationery and equipment as may be required.

SCHOOL CHOIRS AND DRAMATIC CLASSES.

The Committee is prepared to facilitate the organisation of Choral and Dramatic Societies and similar activities. Students interested are invited to communicate with the Principal.

REGULATIONS IN REGARD TO FEES

All fees must be paid on enrolment.

Where a student elects to enrol in any particular Institute for certain classes, a transfer to one of the other Technical Institutes for similar classes without payment of the full enrolment fee, can only be made by special permission.

Students who, through obtaining employment or other valid reason, are unable to continue in attendance at current Whole-time Day Courses, may be admitted to approved Evening School Courses in the current Session with a remission of fees up to the value of the Day School Fees paid.

FEES

DAY COURSES.		£	s.	d.
Applied Science (Whole-time) ... ..	... per Session	£6	0	0
Bakery Practice (Part-time) ... ..	... do.	0	7	6
Certificate Course in Breadmaking (Part-time)	do.	0	15	0
Certificate Course in Flour Confectionery	do.	0	15	0
Cinema Projection Technology (Part-time) ...	do.	0	10	0
Electrotechnology and Engineering Science (Whole-time)	per Session	1	0	0
Electrical Installation Work (Whole-time)	do.	1	0	0
Instrument Making and Laboratory Arts (Whole-time)		3	0	0
Preparatory Course—Electrical and Radio Technology (Whole-time) ... ..	... do.	3	0	0
Radio Engineering (Whole-time) ... ..	... do.	9	0	0
Testing, Maintenance and Servicing of Radio Equipment (Whole-time) ... ..	... ..	6	0	0
Wireless Telegraphy :—				
*Marine Operators' Certificate Course ... ..	... ..	12	0	0
*Aircraft Operators' Certificate Course ... ..	... ..	12	0	0
*Combined Course ... ..	... ..	16	0	0
Radiotechnology (Part Course) ... ..	... ..	2	0	0
Direction Finding (Part Course)	per Month	1	0	0
Morse Practice (Part Course)	per Month	0	7	6

EVENING COURSES : ART, SCIENCE, TECHNOLOGY,

TRADES.

Applied Chemistry	per Session	1	0	0
Industrial Bacteriology	do.	1	0	0
Specialised Technical Analysis	do.	1	10	0
Medical Chemistry (Lec. and Lab.)	do.	1	10	0
Pharmaceutical Chemistry (Lectures)	do.	1	10	0
Ditto, ditto (Lab. 120 hours)	do.	0	15	0
Ditto, ditto (Practice)	per Term	0	10	0
Pharmacy (Practical)	do.	0	15	0

	£	s.	d.
Electrotechnology and Engineering Practice :			
Radio Service Work : Radio Communication :			
Intermediate Courses	0	10	0
Final Courses	1	0	0
Technical Physics : Special Courses	1	0	0
Associate Membership Course (I.E.E.)			
" " Part I	1	0	0
" " Part II	1	0	0
Wireless Telegraphy :—			
*Marine Operators' Certificate Course	4	0	0
*Aircraft Operators' Certificate Course	4	0	0
*Combined Course	5	0	0
(The above Fees may be paid in advance or as follows :			
A payment of Two Pounds on Enrolment and thereafter of One Pound at the commencement of each subsequent Term until the full Fee is paid).			
Radiotechnology (Part Course)	1	0	0
Direction Finding (Part Course) per Month	0	7	6
Introductory Course (non-Apprentice) ...per Session	0	2	6

All other Courses in this section—7/6 for each year of Course.
 Students of Evening Technical Courses may take a class in Irish at a fee of 2/6.

[* Fees for Certificate Courses in Wireless Telegraphy are inclusive for the full period of training up to certification.]

Schools of Science and Technology

Kevin Street

(Telephone 51801)

STAFF:

E. MORTON, B.SC., A.R.C.SC.I., *Principal and Head of the Schools of Physics, Electrical Engineering and Chemistry.*

ORGANISATION OF STUDIES: ADVISORY PANEL.

Physics : Mathematics : Special Trades	...	MR. F. NOLAN
Applied Chemistry : Biology : Manufactures	...	MR. W. LOOBY
Electrotechnology : Associated Trades	...	MR. W. FEGAN
Telecommunications : Associated Courses	...	MR. H. HODGENS
Art Courses	... ..	MR. W. WHELAN
Records : Interdepartmental Co-ordination	...	MR. E. V. CLEARY
Clerk—MR. J. O'DEA.		

MATHEMATICS, PHYSICS.

HENRY C. CLIFTON, B.A.; FRANCIS NOLAN, M.SC.; P. J. O'CALLAGHAN, B.SC., A.R.C.SC.I.; M. HENDERSON, B.E.; E. HYNES, B.E.; J. M. FORDE, B.E.; H. FLOOD, B.SC., A.R.C.SC.I.; E. MOYNIHAN, B.SC., A.R.C.SC.I.; P. WHELAN, B.SC., A.R.C.SC.I.; B. J. DIXON, B.SC., A.R.C.SC.I.; D. W. MORRISSEY, B.SC.; J. C. COSTELLO, B.SC., Tech., B.E. (HONS.); T. SHIEL, M.A., H.DIP.ED.

APPLIED CHEMISTRY AND BIOLOGY.

W. J. LOOBY, B.SC., A.R.C.SC.I., H.DIP.ED.; B. G. FAGAN, B.A.; B.SC., F.I.C., A.R.C.SC.I.; P. J. HURLEY, M.SC.; H. D. THORNTON, B.SC., A.R.C.SC.I.; F. J. BARRAGRY, M.P.S.I.; G. A. WATSON, B.SC., A.R.C.SC.I.; M. J. GORMAN, B.SC.; A.R.C.SC.I.; J. H. FERGUSON, Tech. Dip. (Milling); JOHN SHIEL, M.D., B.L., PH.C.; D. W. MORRISSEY, B.SC.; D. SLATTERY, B.SC., A.R.C.SC.I.

ELECTROTECHNOLOGY, TELECOMMUNICATIONS.

W. FEGAN, A.M.I.E.E.; GEO. K. RING, B.E., A.R.C.S.C.I., B.SC.; HAROLD A. HODGENS, R.O., Tech. Dip.; M. J. O'RORKE, R.O.; J. J. O'DOHERTY, B.SC., B.E., A.M.I.E.E.; B. MANGAN, B.E.; W. O'CONNOR, B.E.; T. J. CARROLL, R.O., Tech. Dip.; E. HYNES, B.E.; H. DE LACY, B.E.; J. HONAN, R.O.; P. CONLON, Tech. Dip.; P. SULLIVAN, Tech. Dip.; H. J. BARRISCALE, B.E.; A. D. WHELAN, B.E.; J. WILLIAMS; EDMUND V. CLEARY, B.E., A.M.I.E.E.; W. TRUNDLE, Tech. Dip. C.G. (LON.); T. P. HOGAN, B.E.; P. J. BYRNE, B.E. (HONS.), B.SC. Tech.

TRADES AND HANDICRAFTS

R. HOWARD	...	...	Instrument Making ; Metal Work.
W. TRUNDLE	...	...	Do. Do.
W. J. BRADY, TECH. DIP.	...	...	Glass Blowing.
E. J. MCNAMARA	...	...	Electrical Installation Work.
J. RYAN	...	...	Do.
J. O'TOOLE	...	...	Electric Welding.
M. O'KEEFE	...	...	Electric Cable Jointing.
A. MULVANEY, TECH. DIP.	...	...	Do.
P. J. CASEY	...	...	Boot Manufacture.
S. ANTHONY, TECH. DIP.	...	...	Breadmaking and Flour Confectionery.

LANGUAGES: INTRODUCTORY COURSES

P. J. HOGAN, B.E.	...	...	Technical German.
F. NOLAN, M.SC.	...	...	Do.
P. O RIAIN	...	...	Irish.
S. E. MAC CORMAIC	...	...	Continuation Subjects.
J. MOYNIHAN	...	...	Continuation Subjects and Irish.

ART AND ARTISTIC CRAFTS.

WILLIAM L. WHELAN, Art Master's Certificates, Board of Education, London, Silver and Bronze Medalist, National Competition, South Kensington; Medalist, Irish National Art Competition—*Head of the Arts and Crafts Department.*

JAMES J. BURKE, Certificated Art Teacher, London, Medalist.

MISS MARGARET WHELAN, Certificated Art Teacher, Medalist.

**SCHOOLS OF ELECTRICAL ENGINEERING, RADIO
TECHNOLOGY, PHYSICS AND APPLIED CHEMISTRY**

PROGRAMME AND TIME TABLE

OF THE DAY AND EVENING COURSES IN

Electrical Engineering Practice and Technology

Electrical Trades and Crafts

Instrument Making and Allied Crafts

Radiotelegraphy

Physics and Mathematics

Pure and Applied Chemistry

Industrial Chemistry—Specialised Courses

Bacteriology and Botany

Pharmacy and Allied Subjects

Languages for Students of Technology

SESSION 1943-44.

SCHOOLS OF ELECTRICAL ENGINEERING, RADIO TECHNOLOGY, PHYSICS AND APPLIED CHEMISTRY

DAY COURSES.

Full-Time Junior Course—Electrotechnology and Engineering Science

(Session—September to July).

The Course provides a pre-apprenticeship training of a high standard suitable for those who intend to enter Electrical Trades or the Offices of Consultant Engineers or Electrical Contractors.

The Course is designed to cover two Sessions and provides approximately 28 hours of instruction per week in Mathematics, Physics, Chemistry, Mechanics, Electrical Technology and Workshop Practice, and in Irish, English and Physical Training.

Intending students should not be over sixteen years of age and should have attained a minimum standard of general education equivalent to that of the Second Year of the Intermediate Course in Secondary Schools.

Applicants for admission to the Course are required to pass the entrance examination in Mathematics and English prior to enrolment. Students accepted for enrolment must provide themselves with the following requisites :

- (i) Drawing instruments of specified quality.
- (ii) Engineer's overalls and certain specified tools.
- (iii) Stationery and Text books.

Sessional Fee, £1.

Full-time Course—Instrument Making and Laboratory Arts.

(Session—September to July).

The general Course will be conducted over a period of one Session and will mainly be devoted to practical work and the associated technology : a second Session will be assigned to work of a specialised character.

DAY COURSES

In the present Session not more than eight students will be enrolled for the Course. Intending students must have completed attendance at the two-year Day Course in Engineering Science and Electro-technology or alternatively show evidence of having undergone an adequate training in Workshop Practice and in the elements of Physics (Heat, Light, Sound, Magnetism and Electricity).

It is intended that the Course should provide training for occupations in Industrial, College or Government laboratories and workshops as Laboratory or Instrument Technicians.

The practical work and associated technology will include the following:—

Materials, tools, processes; Lathe work; design and construction of Instruments; Electrical measuring instruments; optical instruments; weighing scales and balances; common laboratory apparatus; temperature control instruments; electrodeposition of metals; silvering of glass; glass blowing of technical apparatus.

The work of the Course will entail attendance at the Institute for approximately thirty hours per week.

A general Course Certificate will be awarded on the assessment of the practical work completed in the first year and on the results of the theoretical examinations. A special Course Certificate will be awarded similarly at the conclusion of the second year specialised Course.

Course students may attend related evening classes on two evenings per week.

Inclusive Sessional Fee, £3.

Full-time Preparatory Course—Electrical and Radio Technology

(Session—October to July).

The Course provides a preparatory training for students who intend later to take a specialised Course in (a) Radio Engineering or (b) Radio Telegraphy (Radio Officers), or who intend to take up Radio Service Work.

DAY COURSES.

The subjects of the Course include Mathematics, Physics, Chemistry, Electrotechnology, Principle of Radio Communication, Workshop Practice.

Students of this Course may take related Evening Classes on two evenings per week.

Inclusive Sessional Fee, £3.

Full-time Course—Testing, Maintenance and Servicing of Radio Equipment.

(Session—September to July).

The Course, covering a period of one Session, is designed to meet the needs of students desiring full training and certification in Radio Service Work.

Not more than twelve students will be accepted for enrolment.

Applicants must show evidence of having acquired a fundamental knowledge of the principles of Magnetism and Electricity (direct and alternating current). Prior consideration will be given to applications from students possessing qualifications as follows:—

(i) Certificates of satisfactory attendance and progress at the Preparatory Day Course of this Institute or other Course of similar standard.

Or (ii) City and Guilds Certificate in Radiocommunication.

Or (iii) State Certificate of Proficiency in Radiotelegraphy (Eire or Britain).

The Course provides approximately twenty-five hours instruction per week in subjects including Radio Theory, Circuits, Servicing Equipment and Instruments, Use of Oscilloscope, Location of Faults, etc., Ancillary Mathematics and Electrotechnology, Workshop Repairs and Assembly, Business Methods and Office Routine.

Students are expected to sit for the City and Guilds Examination in Radio Service Work held in the month of May in each year.

Course students may attend related Evening Classes on two evenings per week.

Inclusive Sessional Fee, £6.

DAY COURSES.

**Full-time Courses for the Training and Certification of
Radio Officers (Mercantile Marine and Aircraft).**

COURSE OF INSTRUCTION.

The Course of Training is arranged to prepare students in the shortest possible time for the Examinations of Proficiency in Radiotelegraphy and Radiotelephony. The instruction consists of Lectures and Practical Work in Technical Electricity, Technical Radiotelegraphy and Radiotelephony, and Direction Finding, with practice on the Marine and Aircraft Apparatus specified above, and includes training in sending and receiving in the Morse Code, operating procedure and the handling of traffic, and in the Rules and Regulations for Radio Operators including the Q-Code, and typewriting.

ENROLMENT AND PERIOD OF TRAINING.

Enrolment may be effected at any period within the Session: the duration of the period of training requisite for the acquirement of a State Certificate of the First Class is approximately 18 months.

(See pages 10-16 of the Prospectus relative to Syllabuses and conditions of admission to Courses).

EXAMINATIONS.

The State Certificate Examinations are conducted in the School at intervals of three months by examiners appointed by the Department of Posts and Telegraphs; the syllabuses of Examination subjects are those defined by the International Telecommunication Convention, 1937. State Certificates confer eligibility for employment as Radio Officer in Mercantile Marine or Air Services (Eire and British Commonwealth).

FEES.

The Fees, which cover tuition in all subjects up to obtaining the State Certificate of Proficiency, are as follows:—

DAY COURSES.

Marine Operators' Certificate Course	...	...	£12	0	0
Aircraft Operators' Certificate Course	...	...	12	0	0
Combined Course	...	...	16	0	0

The payment of Fees may be made in advance or as follows :—

Day Course Fees : A payment of Four Pounds on Enrolment and thereafter of Four Pounds at the commencement of each subsequent term until the full fee is paid.

Full-time Course—Radio Engineering.

(Session—October to July).

This advanced Course is designed to offer a thorough training, over a maximum period of three Sessions, in Radio Communication Principles and Engineering Practice, and meets the requirements of those who seek special qualifications in Radio Engineering or who intend to enter employment as Technicians in any branch of the Radio Industry.

The Schedule for the full Course embraces Lectures and Experimental courses in the following subjects : Technical Physics (Mechanics, Heat, Sound, Light and applications in Electrical Communications); Mathematics (Algebra, Trigonometry, Conic Sections, Differential and Integral Calculus); Electrotechnology (D.C. & A.C. theory : Machines); Radio Communication and Carrier Telephony; Radio Frequency Measurements; Engineering Electronics; Radio Installations and Plant; Radio Service Work; Workshop Practice.

The syllabuses of instruction conform in full with the examination requirements of the Institution of Electrical Engineers, the City and Guilds of London Institute and the several recognised professional institutions associated solely with this branch of Engineering.

Intending students should have attained a minimum standard of Mathematics equivalent to that connoted in the Intermediate Certificate Examination Syllabus.

DAY COURSES.

Applicants possessing the Certificate of Proficiency of the First Class in Radiotelegraphy or the Preliminary Grade Certificate in Radiocommunication (City and Guilds of London) or an equivalent qualification may be approved by the Principal for direct admission to the Second Year of the Course.

The Course provides approximately 28 hours of instruction per week; students of the Day Course may take related Evening Classes on two evenings per week.

FEES.

Inclusive Sessional Fee—£9.

The payment of Fees may be made in advance or as follows :

Day Course Fees.—A payment of Three Pounds on Enrolment and of two subsequent payments of Three Pounds each made at the commencement of following Terms in the Session.

Full-time Courses—Mathematics and Science Subjects.

PRE-UNIVERSITY AND HIGHER COURSES.

(Session—October to July).

COURSE A—Specialising in Physics, Chemistry, Biology.

COURSE B—Specialising in Mathematics, Engineering Science Subjects.

COURSE C—Specialising in subjects for the Preliminary and Professional Examinations of the Association of Ophthalmic Opticians (Ireland) and of the British Optical Association.

COURSE D—Specialising in subjects for the Preliminary and Membership Examinations of the Society of Radiographers (women students only).

The Courses provide a thorough general scientific training suited to the requirements of students who intend to enter scientific occupations as Pharmaceutical Chemists, Opticians, Radiologists, etc., or who desire to train for entrance to some branch of Chemical or Engineering Industry having a scientific basis.

Intending Students should consult the Principal.

DAY COURSES.

The Courses also serve to provide a specialised pre-University course of instruction for students who already have matriculated or who are preparing for University Entrance, Matriculation or higher Examinations.

Day Courses to suit individual students may be arranged by options made from the following schedule of studies :

Mathematics (Geometry, Co-Ordinate Geometry, Algebra, Trigonometry, Calculus Elements); Applied Mathematics (Statics, Dynamics, Hydrostatics); Physics (Heat, Sound, Light, Magnetism and Electricity); Chemistry; Metallurgy; Botany; Biology; Workshop Practice; Descriptive Geometry; Technical Drawing; Irish; English; French; German.

The Syllabuses of instruction generally conform with those of the Department of Education (T.I.B.), and also approximate to those for the Matriculation and First University Examination of the National University.

The requirements of the student for specialised instruction in any particular branch of Applied Science or Industrial Technology are provided in Evening Classes; students attending the Day Course may take specialised Evening Classes on two evenings per week.

Inclusive Sessional Fee, £6.

DAY COURSES

Part-Time Courses—Science and Technology

(Session—October to July).

Classes of established Courses in one or more of the specialised subjects listed hereunder may be taken on payment of the appropriate fees.

<i>Subject</i>	<i>Day</i>	<i>Hour</i>	<i>Fee per term</i>
{ Chemistry (Lectures)	Wed., Fri.	... 9.30–10.30	£1
{ Do. (Lab.) ...	Wed., Fri.	... 10.30–12.30	
Special Laboratory Course ...	Tuesday	... 9.30–12.30	£1
{ Physics (Lectures)	Mon., Thurs.	... 9.30–10.30	£1
{ Do. (Lab.) ...	Mon., Thurs.	... 10.30–12.30	
Biology (Lec. & Pract.)	} Tuesday	... 5.30–7.0	£1
Botany		} Thursday		... 5.0–6.30
Mathematics ...	Mon., Wed., Fri	2.0–3.30	£1
Applied Mathematics ...	Tues., Thurs.	... 2.0–4.0	£1
Electrical Technology (D.C.; A.C.)	(6 Hours per week)		£1
Electrical Installation Technology	(6 Hours per week)		£1
Technical Drawing	... (6 Hours per week)		£1
Workshop Practice	...	...	£1
Welding Practice	...	...	£1

Part-Time Courses—Practical Pharmacy

The Courses are intended for Pharmaceutical students preparing for the Final Examinations of the Pharmaceutical Society of Ireland.

Three Courses are conducted in each Session, *viz.*, one Course in each of the three School terms, *viz.*, Winter, Lent and Summer terms.

There are approximately twelve class meetings to each Course. Classes meet on Wednesday and Thursday afternoons from 3 to 6 p.m.

Course Fee, 15/-.

DAY COURSES FOR TRADE APPRENTICES

Full-time Courses—Electrical Installation Work and Electrotechnology

These Courses are conducted under special schemes making provision for the full technical training of Electrical Apprentices during the five-year period of Apprenticeship. The schemes have the co-operation of Trade Unions and Employers.

Courses provide 33 hours of instruction per week in Electrical Theory and Experimental Work, Engineering Science, Mathematics, English (Précis and Report Writing), Technical Drawing, Electrical Installation and Fitting Work.

The syllabuses of instruction are based on those for the Department of Education Examinations in Electrical Installation Work and in Electrical Engineering Practice. By arrangement with the Department of Education, students sit for the Junior and Senior Trade Tests and for the Technological Examinations at appropriate stages in the instruction.

The duration of the Courses, depending on the particular scheme, varies between 3 months and 6 months in each year of Apprenticeship.

Fee for each Course, £1.

Part-time Courses—Projection Science and Technology (Cinema Apprentices)

The Courses are designed to provide for the technical training of Cinema Apprentices employed in the Dublin Area, and are organised in co-operation with the Trade Union and the Irish Cinema and Theatre Managers' Association.

The Courses extend over three Sessions and provide a minimum of four hours of instruction per week in Mathematics, Elementary Science, Light and Sound, Technical Electricity, Electrical Reproduction of Sound, and Sound Head Amplifier Equipment.

The Session extends from October to mid-June in each year.

Fee for each Course, 10/-.

SCHOOLS OF ELECTRICAL ENGINEERING, RADIO TECHNOLOGY, PHYSICS AND APPLIED CHEMISTRY

EVENING DEPARTMENT.

CERTIFICATE COURSES AND DIPLOMAS : EXTERNAL EXAMINATIONS.

The attention of Students is directed to the Examinations in Art, Engineering and Chemical Technology, and Craft subjects conducted under the auspices of the Department of Education, the City and Guilds of London Institute, and Professional Institutions, such as the Institution of Electrical Engineers, the Institute of Gas Engineers, etc.

When deciding on a Course of Study the intending student should consult the Principal or a Lecturer. It is important that the Course prescribed should meet the educational requirements of the student, and lead also to his or her acquirement of a Technical Qualification of recognised standing in Industry. *Such qualifications are of definite value to the holders when seeking employment or betterment of position.*

The Established Courses as listed hereunder are conducted in relation to the examination requirements of the several authorities named.

COURSE	EXAMINATION SYLLABUSES
Art Subjects	Department of Education.
Breadmaking and Flour Confectionery	City and Guilds (Lond.).
Brewing	City and Guilds (Lond.).
Electrical Engineering Practice... ..	{ City and Guilds (Lond.). Department of Education. Institution of Electrical Engineers
Electrical Installation Work	

COURSE	EXAMINATION SYLLABUSES
Flour Milling	{ Department of Education. { City and Guilds (Lond.).
Gas Engineering and Supply ...	{ City and Guilds (Lond.). { Institute of Gas Engineers.
Instrument Making : Glass Blowing	Institute of Physics.
Line Telegraphy, Telephony ...	{ Department of Education. { Institution of Electrical Engineers. { City and Guilds (Lond.). { City and Guilds (Lond.).
Milk Processing	City and Guilds (Lond.).
Oils, Fats and Waxes	City and Guilds (Lond.).
Paints and Varnishes	City and Guilds (Lond.).
Petroleum Products	City and Guilds (Lond.).
Physics ; Applied Chemistry	} { Department of Education.
Mathematics	} { University of London. } { Institute of Chemistry.
Pharmaceutical Chemistry and Allied Subjects	Pharmaceutical Society of Ireland.
Radio-Communication	{ City and Guilds (Lond.). { Institution of Electrical Engineers, etc .
Radio Service Work	{ City and Guilds (Lond.). } B. Inst. of Radio Engineers.
Radio-Telegraphy, -Telephony (Aircraft and Marine Radio Officers)	Department of Posts and Tele- graphs.

Further information in regard to Schemes of External Examinations may be had on request to the Principal.

Schools of Electrical Engineering, Radio Technology, Physics and Applied Chemistry

EVENING COURSES and TIME TABLE

SPECIAL CLASSES IN IRISH

Registered students may take Irish as an additional subject on payment of a fee of 2/6. Graded Classes in Irish are organised in several Institutes and students are advised to consult the General Time-table of Irish Classes as displayed on the Notice Board in order to ascertain the most convenient centre.

INTRODUCTORY COURSES

Intending students who have failed the entrance examinations or whose educational standard is deemed to be below the minimum required for entrance on a course of Theoretical Instruction are required to enrol in an Introductory Course and subsequently to make satisfactory attendance and progress during the period of the Course, before being admitted to specialised classes in Science or Technology in the following Session.

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
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FOR NON-APPRENTICE STUDENTS—FEE 2/6

1K	*English	Tues. or Thurs.	7.30-8.30		S. F. MacCormac.
	*Elementary Mathematics	do.	8.30-9.30		S. E. MacCormac.
	Drawing	Mon. ..	7.30-9.30		Miss M. Whelan.

FOR TRADE APPRENTICES ONLY—FEE 7/6

2K	*English—F	Tues. or Thurs.	7.30-8.30		S. E. MacCormac.
	*Elementary Mathematics	do.	8.30-9.30		S. E. MacCormac.
	Practical Trade Subjects—as may be arranged.				

ELECTRICAL TRADES

ELECTRICAL INSTALLATION WORK.

FIRST YEAR.

3K	Electrical Wiring—Pract. I. ..	Mon. or Fri.	7.0-9.30	1	E. J. McNamara
	Electrical Engineering—Lect. I.	Wed. ..	7.0-8.0	12	E. Moynihan
	Electrical Laboratory—I. ..	Wed. ..	8.0-9.30	8	E. Moynihan, H. Flood.
	Physics for Electricians ..	Tues. ..	7.0-9.30	8	H. Flood, M. Henderson

SECOND YEAR.

4K	Electrical Wiring—Pract. II. ..	Thurs. ..	7.0-9.30	1	E. J. McNamara.
	Electrical Installation—Lect. II.	Tues. ..	7.30-8.30	4	W. Trundle
	Electrical Engineering—II. ..	Mon. ..	7.0-9.30	6	E. Hynes, E. V. Cleary

ELECTRICAL FITTING.

THIRD YEAR.

5K	Electrical Fitting—Pract. ..	Wed. ..	7.0-9.30	1	E. J. MacNamara;
	Electrical Engineering—(D.C. and A.C.)	Thurs. ..	7.0-9.30	6	W. Trundle W. Fegan, W. Trundle
	Technical Drawing	Fri. ..	7.0-9.30	14	J. Williams.

CABLE JOINTING.

6K	Cable Jointing	Mon. & Wed. Tues. & Thurs.	7.30-9.30	18	P. O'Keefe
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EVENING COURSES

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
ELECTRIC WELDING PROCESSES AND SCIENCE					
7K	Pr. Welding, IA	Mon., Wed.	6.30-8.0	5	J. O'Toole
	do. IB	Mon., Wed.	8.30-9.0	5	do.
	Elementary Science	Fri. ..	7.0-8.0	4-8	E. Moynihan
8K	Pr. Welding, IIA	Tues., Thurs.	6.30-8.0	5	J. O'Toole
	do. IIB	do.	8.30-9.0	5	do.
	Welding Metallurgy and Sketching IIB	Wed. ..	7.30-8.30		E. Hynes
9K	Pr. Welding, III	Fri. ..	6.30-9.30	5	J. O'Toole
	Welding Metallurgy and Sketching	Wed. ..	8.30-9.30		E. Hynes

ELECTROTECHNOLOGY—ELECTRICAL ENGINEERING PRACTICE

PRELIMINARY COURSES

FIRST YEAR.					
10K	Electrical Engineering—I.A. ..	Thurs. ..	7.0-9.30	12,10,8	H. Flood, E. Moynihan
	Physics for Electricians—I.A. ..	Mon. ..	7.0-9.30	8	H. Flood, M. Henderson
11K	Electrical Engineering—I.B. ..	Wed. ..	7.0-9.30	12,10,8	E. Moynihan, H. Flood
	Physics for Electricians—I.B. ..	Tues. ..	7.0-9.30	8	H. Flood, M. Henderson

INTERMEDIATE COURSES

DIRECT CURRENT AND MACHINES

GRADE I					
12K	Electrical Engineering—II. ..	Mon. ..	7.0-9.30	11-4-6	E. Hynes, E. V. Cleary
	Mathematics—II. or higher stage	Fri. ..	7.0-9.30	19	A. D. Whelan.
	Technical Drawing—II. ..	Wed. ..	7.0-9.30	14	H. J. Barriscale.
GRADE II.					
13K	Electrical Engineering—III. ..	Wed. ..	7.0-9.30	4-6	G. Ring, W. Fegan.
	Applied Mechanics—I. ..	Thurs. ..	7.15-9.15	28	J. M. Forde.
	Mathematics III. ..	Fri. ..	7.0-9.30	4	D. W. Morrissey.

ALTERNATE CURRENT AND MACHINES

GRADE I					
14K	Electrical Engineering—IV. ..	Tues. ..	7.0-9.30	4-6	G. Ring, W. Fegan.
	Mathematics—III (or higher stage). ..	Fri. ..	7.0-9.30	19	D. W. Morrissey.
	Applied Mechanics—I. ..	Thurs. ..	7.15-9.15	28	J. M. Forde.
GRADE II.					
15K	Electrical Engineering—V. ..	Thurs. .. } Fri. .. }	7.0-9.30	4-6	G. Ring, W. Fegan.
	Power Plants and Producers ..	Wed. ..	7.0-9.30	A8	
	Mathematics III. or IV. ..	{ Fri. .. } { Mon. .. }	7.15-9.15	4	D. W. Morrissey
		{ Mon. .. }	7.15-9.15	17	J. M. Forde.
	Mechanics—II. ..	Tues. ..	7.0-9.30	28	J. M. Forde.

EVENING COURSES

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
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FINAL COURSE

ELECTRICAL ENGINEERING PRACTICE

GRADE III.						
16K	Generation and Transmission ..	}	Tues. ..	7.15-9.15	17	J. J. O'Doherty.
			Fri. ..	7.15-9.15	17	J. J. O'Doherty.
	Distribution and Utilisation of Electrical Energy ..	..	Thurs. ..	7.15-9.15	17	J. J. O'Doherty.
	Mathematics IV (or higher stage) ..	..	Mon. ..	7.15-9.15	17	J. M. Forde.
			Mon. ..	7.15-9.15	B2	H. C. Clifton.

INSTITUTION OF ELECTRICAL ENGINEERS.

ASSOCIATE MEMBERSHIP COURSE.

PART I.							
17K	English Essay ...	...	Wednesday	8.0-9.30		Mr. Moynihan
	Electrical Technology ...	...	Thur., Fri.	7.0-9.30		Mr. Ring
	Inorganic Chemistry ...	...	Wednesday	7.0-8.0		Mr. Watson
	Applied Mechanics ...	...	Tuesday ...	7.0-9.30		Mr. Forde
	Heat, Light and Sound ...	...	Monday ...	7.0-9.30		Mr. Hogan
PART II.							
18K	Generation and Transmission	}	Tuesday	7.15-9.15	}	Mr. O'Doherty	
			Thursday	7.15-9.15			
			Friday				
	Distribution and Utilisation of Electrical Energy						Mr. Costello
	or	..					
Radio Communication	...	Mon., Fri. ...	7.15-9.15			Mr. de Lacy	
or	..						
Technical Telephony Transmission and Lines			Tuesday	7.15-9.15		Mr. Mangan	
			Friday				

Students should consult the Principal or a Lecturer before enrolling. It should be noted that exemption from Part II of the Associate Membership Examination is accorded to holders of one of the following qualifications of the City and Guilds of London Institute:

- (i) Final Certificate in Electrical Engineering Practice, in either Section A or B or C or D or E.
- (ii) Grade II Certificate in Technical Electricity, plus the Grade II Certificate in Telegraphy.
- (iii) Grade III Certificate in Radio-Communication.
- (iv) Grade II Certificate in Transmission and Lines.

P.O. ENGINEERING AND TECHNOLOGY

PRELIMINARY COURSES

POST OFFICE ENGINEERING

19K	Post Office Engineering—I. ..	Mon. ..	7.15-9.15	5	H. J. Barriscale.
	Instrument and Wiring (Pr.) ..	Fri. ..	7.15-9.15	33	H. J. Barriscale.

EVENING COURSES

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
TECHNICAL TELEGRAPHY.					
*INTERMEDIATE COURSES					
GRADE I					
20K	Technical Telegraphy—I.	Thurs.	7.15-9.15	15	P. J. Sullivan.
	Magnetism and Electricity	Fri.	7.0-9.30	12,10,8	P. J. O'Callaghan.
GRADE II					
21K	Technical Telegraphy—II.	Mon.	7.15-9.15	15	
TECHNICAL TELEPHONY					
GRADE I					
22K	Technical Telephony—I.	Wed.	7.15-9.15	8	P. J. Sullivan.
	Magnetism and Electricity—1	Fri.	7-9.30	12-10-8	P. J. O'Callaghan.
GRADE II					
23K	Technical Telephony—II.	Fri.	7.15-9.15	15	B. Mangan
	Magnetism and Electricity—II	Tues.	7.0-9.30	16 & 10	H. Barriscale
*FINAL COURSE					
GRADE III					
24K	Transmission and Lines	Tues.	7.15-9.15	15	B. Mangan
*A Class in Mathematics may be taken in addition.					
RADIO COMMUNICATION.					
PRELIMINARY COURSE					
25K	Magnetism and Electricity—I.	Fri.	7.0-9.30	12-10-8	P. J. O'Callaghan.
	Mathematics I (or Higher Stage)	Thurs.	7.15-9.15	19	A. D. Whelan
	Radio Communication Elements	Mon.	7.15-9.15	8A	J. Carroll
INTERMEDIATE COURSES					
GRADE I					
26K	Radio Communication—I.	Wed.	7.15-9.15	15	H. de Lacy
	Magnetism and Electricity II	Tues.	7.0-9.30	16 & 10	H. J. Barriscale
	Mathematics II or III	Fri.	7.15-9.15	19-4	D. W. Morrissey
	Wave Motion and Sound	Mon.	7.15-9.15	9	F. Nolan.
GRADE II					
27K	Radio Communication—II	Mon. Thurs.	7.15-9.15	11	H. de Lacy
	Electronics—I	Tues.	7.15-9.15	9	P. J. O'Callaghan
	Mathematics—III or IV	Fri .. .	7.15-9.15	4-14	D. W. Morrissey H. C. Clifton
FINAL COURSE					
GRADE III					
28K	Radio Communication III	Fri.	7.15-9.15	11	H. de Lacy
	do. (Lab.)	Mon.	7.15-8.15	11	H. de Lacy
	Mathematics IV or V	Tues.	7.15-9.15	19	E. J. Hynes

EVENING COURSES

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
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RADIO SERVICE WORK

PRELIMINARY COURSE

29K	Electrical Engineering—I ..	Wed. ..	7.0-9.30	12-10-8	{ H. Flood E. Moynihan A. D. Whelan R. Howard
	Mathematics I (or higher stage)	Thurs. ..	7.15-9.15	19	
	Workshop Practice	Mon. ..	7.0-9.30	1 & 2	

INTERMEDIATE COURSES

GRADE I					
30K	Radio Service—I	Tues. ..	7.15-9.15	19	J. Carroll
	Electrical Engineering—II ..	Mon. ..	7.0-9.30	4	E. Hynes
	Mathematics—II	Fri. ..	7.15-9.15	19	A. D. Whelan
GRADE II					
31K	Radio Service—II.	Thurs. ..	7.15-9.15	9	J. V. Honan
	Alternate Current I	Tues. ..	7.0-9.30	4-6	G. K. Ring
	Mathematics—III	Fri. ..	7.15-9.15	4	D. W. Morrissey

FINAL COURSE

32K	Radio Service—III	Thurs. ..	7.15-9.15	9	J. V. Honan
	Wave Motion and Sound ..	Mon. ..	7.15-9.15	9	F. Nolan
	Electronics—I	Tues. ..	7.15-9.15	12	P. J. O'Callaghan

MORSE PRACTICE.

33K	Telegraphy Practice	Tues. & Wed. or Wd. & Fri.	7.30-9.30	13	J. V. Honan
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TRAINING COURSES FOR RADIO OFFICERS

(See Time-Table, page 30).

INSTRUMENT MAKING AND GLASS BLOWING

FIRST YEAR.		INSTRUMENT MAKING.			
34K	Instrument Making—I. ..	Tues. ..	7.0-9.30	2	E. Moynihan.
	Elementary Science	Fri. ..	7.0-9.30	8	
SECOND YEAR.					
35K	Instrument Making—II. ..	Tues., Wed.	7.0-9.30	2	E. Moynihan.
	Electrical Engineering—I. <i>or</i>	Thurs. ..	7.0-9.30	12-10-8	
	Physics—I.	Mon. ..	7.0-9.30	12 & 10		P. J. O'Callaghan.

GLASS BLOWING OF SCIENTIFIC APPARATUS

36K	Glass Blowing	Mon., Wed, Fri.	7.0-9.30	27	W. G. Brady.
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No. of Course	SUBJECT	Day	Hour	Room	TEACHER
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PHYSICS AND MATHEMATICS

PHYSICS.

PRELIMINARY STAGES.

37K	Elementary Science (Physics and Chemistry)	Friday ...	7.0-9.30		E. Moynihan
38	Physics IA (Maths., Mech., Heat)	Monday ...	7.0-9.30		H. Flood, M. Henderson
39K	Physics IB (Maths., Mech., Heat)	Tuesday ...	7.0-9.30		H. Flood, M. Henderson.
40K	Magnetism & Electricity, IA	Thursday ...	7.0-9.30		E. Moynihan, H. Flood
41K	Magnetism & Electricity, IB	Wednesday	7.0-9.30		E. Moynihan, H. Flood

*INTERMEDIATE STAGES.

42K	General Physics and Heat II	Monday ...	7.0-9.30		P. J. O'Callaghan, F. Nolan P. Whelan, P. J. Byrne
43K	Light and Sound, II ...	Wednesday	7.0-9.30		P. J. O'Callaghan, P. Whelan
44K	Magnetism & Electricity, II	Friday ...	7.0-9.30		P. J. O'Callaghan, B. Dixon P. Whelan, M. Henderson E. V. Cleary
45K	Mechanics (Applied Maths.) II	Thursday ...	7.15-9.15		J. M. Forde

*ADVANCED STAGES.

46K	Heat & Thermodynamics, III	To be arranged			
47K	Wave Motion, Sound, Light, III	Monday ...	7.15-9.15	9	F. Nolan
48K	Magnetism & Electricity, III	Tuesday ...	7.0-9.30	16-10	H. Barriscale, P. O'Callaghan
49K	Mechanics (including Strength of Materials) III	Tuesday ...	7.0-9.30	28	J. M. Forde
50K	Ionisation and Electronics, I	Tuesday ...	7.15-9.15	9	P. J. O'Callaghan

TECHNICAL PHYSICS: SPECIAL COURSES.

51K	Engineering Electronics and Oscillographs	To be arranged			H. de Lacy
52K	Physical and Visual Optics	do.			
53K	X-Ray Physics & Apparatus	do.			

*Students admitted directly to Intermediate and higher stage Courses should have attained a standard of general education approximating to Matriculation; the courses will be found generally suitable to those preparing for the examinations of the University of London or of professional Institutions.

MATHEMATICS.

(Preliminary Stages).

54K	Mathematics, IA ...	Wednesday	7.15-9.15	17	A. D. Whelan
55K	Do. IB ...	Thursday ...	7.15-9.15	19	A. D. Whelan
56K	Do. II ...	Friday ...	7.15-9.15	19	A. D. Whelan
57K	Do. III ...	Friday ...	7.15-9.15	4	P. J. Byrne

Intermediate Stages.

58K	Mathematics, IV ...	Monday ...	7.15-9.15	17	J. M. Forde
59K	Do. V. ...	Tuesday ...	7.15-9.15	6-4	J. C. Costello
60K	Do. (tutorial) ...	Friday ...	7.15-9.15	14	H. Clifton

Advanced Stages.

61K	Mathematics, VI ...	Wednesday	7.15-9.15	14	J. C. Costello
62K	Do. (tutorial) ...	Friday ...	7.15-9.15	14	H. Clifton

EVENING COURSES

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
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MATHEMATICAL PHYSICS

51K	Mathematical Physics—I ..	Thurs. ..	7.15-9.15	28	J. M. Forde
52K	Do. —II ..	Tues. ..	7.0-9.30	28	J. M. Forde

PURE AND APPLIED CHEMISTRY

INORGANIC CHEMISTRY

INTERMEDIATE COURSES

FIRST YEAR.

63K	Inorganic Chemistry, Lecture ..	Tues. ..	7.0-8.0	25	G. A. Watson.
	Laboratory—I.	Tues. ..	8.0-9.30	21	G. A. Watson.
	Do.	Wed. ..	7.0-10.0	21	G. A. Watson.
	Physics—I.	Mon. ..	7.0-9.30	10	P. J. O'Callaghan.

SECOND YEAR.

64K	Inorganic Chemistry, Lecture ..	Mon. ..	8.30-9.30	25	G. A. Watson; H. Thornton
	Chemical Analysis—II.	Tues. ..	7.0-9.30	22	G. A. Watson; H. Thornton
		Mon. ..	7.0-8.30	22	G. A. Watson; H. Thornton
	Physics—II. A	Wed. ..	7.0-9.30	9 & 10	P. J. O'Callaghan.

ADVANCED COURSE

THIRD YEAR.

65K	Inorganic Chemistry, Lecture ..	Thurs. ..	7.0-8.0	25	H. Thornton; B. G. Fagan
	Chemical Analysis—III.	Fri. ..	7.0-9.30	22	H. Thornton; B. G. Fagan
		Thurs. ..	8.0-9.30	22	H. Thornton; B. G. Fagan
	Physics IIB.	Wed. ..	7.0-9.30	10	P. J. O'Callaghan

ORGANIC CHEMISTRY

INTERMEDIATE COURSE

FOURTH YEAR.

66K	Organic Chemistry and	Thurs. ..	7.0-9.30	22	B. G. Fagan; H. Thornton
	Chemical Analysis—IV. ..	Fri. ..	7.0-9.30	22	B. G. Fagan; H. Thornton

ADVANCED COURSE

FIFTH YEAR

67K	Organic Chemistry and	Thur., Fri.	7.0-9.30	22	B. G. Fagan; H. Thornton
	Analysis—V.	Thur., Fri.	7.0-9.30	22	B. G. Fagan; H. Thornton

PHYSICAL CHEMISTRY.

68K	Physical Chemistry—Lecture ..	Thurs. ..	7.0-8.0	16	P. O'Callaghan.
	Physical Chemistry—Laboratory	Thurs. ..	8.0-9.30	16	P. O'Callaghan.

EVENING COURSES

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
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INDUSTRIAL CHEMISTRY**SPECIALISED COURSES IN TECHNICAL ANALYSIS.****FOOD AND DRUGS.**

69K | Technical Analysis | Thurs. & Fri. | 7.0-9.30 | 22 | B. G. Fagan; H. Thornton.

OILS AND FATS

70K | Technical Analysis | Thurs. & Fri. | 7.0-9.30 | 22 | B. G. Fagan; H. Thornton.

GAS MANUFACTURE.

71K | Technical Analysis | Thurs. & Fri. | 7.0-9.30 | 22 | B. G. Fagan; H. Thornton.

TESTING OF PETROLEUM PRODUCTS (FUEL OILS AND LUBRICANTS).

72K | Technical Analysis | Thurs. & Fri. | 7.0-9.30 | 22 | B. G. Fagan, H. Thornton

TECHNOLOGY OF MANUFACTURES**BREWING SCIENCE AND CHEMISTRY OF FERMENTATION.**

73K | Lecture and Laboratory .. | Fri. .. | 6.0-8.0 | 23 | W. J. Looby, D. Slattery.

BAKERY AND MILLING SCIENCE.

74K | Lecture and Laboratory .. | Thurs. .. | 7.30-9.30 | 10 | G. Watson.

INDUSTRIAL BACTERIOLOGY AND ENZYME CHEMISTRY.**FIRST YEAR**

75K | Lecture and Laboratory .. | Tues. .. | 7.0-9.30 | 23 | W. J. Looby, D. Slattery.

.. .. | Thurs. .. | 7.0-9.30 | 28 | M. J. Gorman.

SECOND YEAR

76K | Lecture and Laboratory .. | Wed. .. | 7.0-9.30 | 23 | W. J. Looby, M. J. Gorman

.. .. | Fri. .. | 7.0-9.30 | 28

MILK PROCESSING AND MILK PRODUCTS MANUFACTURE.

77K | Lecture and Laboratory .. | Fri., Wed. .. | 7.30-9.30 | 23 | M. J. Gorman, D. Slattery

CEREAL CHEMISTRY AND FLOUR MILLING TECHNOLOGY.**INTERMEDIATE COURSE—Stages I. & II.**

78K | Flour Milling Principles .. | Mon. .. | 7.0-9.30 | 28 | J. H. Ferguson.

Milling Science | Thurs. .. | 7.0-9.30 | 10

FINAL COURSE—Stages III. & IV.

79K | Milling Technology | Wed. .. | 7.0-9.30 | 28 | J. H. Ferguson

Cereal Science | Mon. .. | 7.0-9.30 | 23 | W. J. Looby

TECHNOLOGY OF PAINT AND VARNISH MANUFACTURE.

80K | Lecture and Laboratory .. | Wed. .. | 7.0-9.30 | 21 | G. A. Watson.

81K | ***TOWN GAS MANUFACTURE AND SUPPLY**

82K | ***ELECTRO-DEPOSITION OF METALS**

83K | ***PAPER MANUFACTURE**

*Applicants for these Courses are requested to consult the Principal

CHEMISTRY FOR PHOTOGRAPHY. PHOTO-MECHANICAL PROCESS WORK, LITHOGRAPHY, ETC.

84K | Lecture and Laboratory .. | Thurs. .. | 7.30-9.30 | 22 | F. Nolan

CHEMISTRY AND BOTANY FOR SEEDSMEN.

85K | Lecture and Laboratory .. | Thurs. .. | 7.30-9.30 | 23 | W. J. Looby.

EVENING COURSES

No. of Course	Subject	Day	Hour	Room	Teacher
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MEDICAL CHEMISTRY

86K	Medical Chemistry—Lect.	Wed., Fri. ..	7.0-9.30	16	P. J. Hurley; D. W. Morrissey
	Do. Lab.	Mon. ..	7.0-8.0	16	P. J. Hurley; D. W. Morrissey
	Do. Lab.	Fri. ..	8.0-9.30	16	P. J. Hurley; D. W. Morrissey

COURSES FOR PHARMACEUTICAL CHEMISTS

* LECTURE CERTIFICATE COURSE IN PHARMACEUTICAL CHEMISTRY.

(September to May).

87K	Chemistry and Physics, Lect	Mon. & Fri.	7.0-8.0	25	P. J. Hurley.
	.. .. Lab.	Mon. & Fri.	8.0-10.0	21	P. J. Hurley.

* POST-LECTURE CERTIFICATE COURSES IN PRACTICAL CHEMISTRY.

(September to February; February to May; May to August).

88K	Chemical Laboratory (120 hours).	.. Mon., Wed. Thurs.	7.0-10.0	21	P. J. Hurley.
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PRACTICE COURSES IN PHARMACEUTICAL AND MEDICAL CHEMISTRY

(September to January; January to April; May to August).

89K	Chemical Laboratory	.. Wed. & Thurs.	7.0-10.0	21-16	P. J. Hurley; D. W. Morrissey
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* BOTANY

(September to May).

90K	Botany Thurs.	8.0-9.30	23	W. J. Looby; M. J. Gorman
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* MATERIA MEDICA.

(September to May).

91K	Materia Medica Thurs. ..	7.0-8.0	23	Dr. J. Shiel
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* Courses recognised by the Pharmaceutical Society of Ireland

PRACTICAL PHARMACY.

(September to January; January to May; May to August)

92K	Lecture and Practical	.. Mon., Tues. Thurs., Fri.	7.0-9.30	24	F. J. Barragry
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LANGUAGE COURSES

IRISH FOR STUDENTS OF SCIENCE AND TECHNOLOGY.

93K	Irish Wed.	7.30-9.30	24	
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GERMAN FOR STUDENTS OF SCIENCE AND TECHNOLOGY.

94K	German—I Wed. ..	7.30-9.30	11	P. J. Hogan
	German—II .. ..	.. | Thurs. ..	7.30-9.30	28	P. J. Hogan

School of Radio Telegraphy

DAY AND EVENING COURSES FOR THE TRAINING
AND CERTIFICATION OF RADIO OFFICERS FOR THE
MERCANTILE MARINE AND AIR SERVICES.

DAY COURSES (SEPTEMBER TO JULY)

SUBJECT	Section	Day	Time	Room	TEACHER
Radio Technology	A.	Mon., Wed., Thurs.	10.30-11.30	11	H. Hodgens.
.. .. .	B.	Tues., Wed., Fri.	3.0-4.0	11	H. Hodgens.
Practical Radio	A.	Mon. Wed. Thurs.	11.30-12.30	11	H. Hodgens.
.. .. .	B	Tues., Wed.,	3.0-4.0	11	H. Hodgens.
Aircraft Radio	A	Tuesday & Friday	10.30-11.30	11	H. Hodgens.
Mathematics	B & C	Optional Class *	—	—	P. J. Byrne
Electricity and Magnetism	A.	Tues., Fri. ..	11.30-12.30	9	W. Fegan.
Alternate Current	B.	Monday	2.0-4.0	4	W. Fegan.
.. .. .	B.	Thursday	10.30-12.30	9	W. Fegan.
.. .. .	C.	Wednesday	10.30-12.30	9	F. Nolan.
.. .. .	C.	Thursday	2.0-4.0	10	F. Nolan.
Rules and Regulations	A.	Tues., Fri. ..	2.30-3.0	13	J. Honan ; M. J. O'Rorke.
.. .. .	B.	Thursday	3.0-4.0	13	J. Honan ; do.
.. .. .	C.	Monday	3.0-4.0	13	J. Honan ; do.
Aircraft Procedure and Regulations	A.	Wednesday	3.0-4.0	13	H. Hodgens.
Morse Code Practice and Operating Procedure	A. B. C.	Daily	10.0-12.30 2.0-4.0	13	J. Honan ; M. J. O'Rorke.

EVENING COURSE (SEPTEMBER TO JULY)

SUBJECT	Day	Hour	Room	TEACHER
Morse Code Practice (including Marine and Aircraft Operating Procedure) First Year	Mon., Wed., Thurs.	7.30-9.30	13	J. V. Honan M. J. O'Rorke
Second Year	Mon., Thurs., F.I.	7.30-9.30	13	J. V. Honan M. J. O'Rorke
Rules and Regulations (Marine and Aircraft)	Wednesday, Friday	8.0-9.0	13	J. V. Honan M. J. O'Rorke
Electricity and Magnetism (Lecture and Laboratory) First Year	Friday	7.0-9.30	8 & 10	P. O'Callaghan
Radio Technology Second Year	Tuesday	7.30-9.30	11	H. Hodgens
Practice Radio Second Year	Wednesday	7.30-9.30	11	J. V. Honan
* Alternating Current (May, June, July) First Year	Thursday	7.0-9.30	6	G. K. Ring

*Students of Day and Evening Courses may attend the Course in Alternating Current

ART
AND
ARTISTIC CRAFTS

The Art Department is open on every evening in the week, except on a Saturday, and Art Students in courses above First Year Grade may work on any evening in the week when there happens to be room. Students will work under the guidance of the Art Master, who may change the night of work, or otherwise vary the courses to meet particular needs.

STAFF

ART AND ART CRAFTS.

WILLIAM L. WHELAN, Art Master's Certificate, Board of Education, London, Silver and Bronze Medalist, National Competition, South Kensington; Medalist, Irish National Art Competition—*Head of the Arts and Crafts Department.*

JAMES J. BURKE, Certificated Art Teacher, London, Medalist.

MISS MARGARET WHELAN, Certificated Art Teacher, Medalist.

Evening Courses and Time Table

GENERAL ART COURSES

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
	FIRST YEAR.				
100 K	Obj. and Mem. Drawing—I. ..	Thurs.	7.30-9.30	14	W. L. Whelan; Miss M. Whelan.
	Mechanical Drawing and Design				
	—I.	Tues.	7.30-9.30	14	Miss M. Whelan.
	Extra Class in any Art subject	..	7.30-9.30	11	W. L. Whelan.
	SECOND YEAR.				
101 K	Obj. and Mem. Drawing—II. ..	Thurs.	7.30-9.30	14	W. L. Whelan.
	Design—II.	Tues.	7.30-9.30	14	W. L. Whelan; J. J. Burke.
	Drawing from Natural Forms				
	—II.	Mon.	7.30-9.30	14	W. L. Whelan.
	Drawing from Casts—II ..	—	—	—	—
	THIRD YEAR.				
102 K	Obj. and Mem. Drawing—III.	Mon.	7.30-9.30	14	W. L. Whelan; Miss M. Whelan
	Industrial Design—III. ..	Thurs.	7.30-9.30	14	W. L. Whelan; J. J. Burke.
	Drawing from Natural Forms				
	—III.	Thurs.	7.30-9.30	14	W. L. Whelan.
	Drawing from Casts—III. ..	Thurs.	7.30-9.30	14	W. L. Whelan.
	Pictorial Composition	Mon.	7.30-9.30	14	W. L. Whelan.
	FOURTH YEAR.				
103 K	Obj. and Mem. Drawing—IV.	Mon.	7.30-9.30	14	W. L. Whelan.
	Industrial Design—IV. ..	Thurs.	7.30-9.30	14	W. L. Whelan.
	Pictorial Composition	Mon.	7.30-9.30	14	W. L. Whelan.
	Drawing and Painting from				
	Natural Forms	Mon.	7.30-9.30	14	W. L. Whelan.

APPLIED ART AND CRAFT COURSE

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
	FIRST YEAR.				
104 K	Mechanical Drawing, Geometrical Design, etc.	Tues.	7.30-9.30	14	Miss M. Whelan.
	Freehand and Elementary Drawing from Casts, etc.	Thurs.	7.30-9.30	14	W. L. Whelan.
	Craftwork	Mon.	7.30-9.30	14	W. L. Whelan; Miss M. Whelan.
	SECOND YEAR.				
105 K	Elementary Designs and General Handicrafts	Mon.	7.30-9.30	14	W. L. Whelan.
	Drawing of Common Objects, etc.	Thurs.	7.30-9.30	14	W. L. Whelan.
	Craftwork	—	—	—	—
	THIRD YEAR.				
106 K	Industrial Design	Thurs.	7.30-9.30	14	W. L. Whelan, J. J. Burke.
	Drawing in Light and Shade from Casts, etc.	Tues.	7.30-9.30	—	—
	Craftwork	—	—	—	—
	FOURTH YEAR.				
107 K	Industrial Design and Historic Development of Styles	Thurs.	7.30-9.30	14	W. L. Whelan.
	Craftwork	—	—	—	—

In the Third and Fourth Years a Class in Craftwork should be taken, and in the First and Second Years an appropriate Class in Art added.

SPECIAL ART AND CRAFT CLASSES

SUBJECT	Day	Hour	Room	TEACHER
Art Metalwork	Tue-Thrs.	7.30-9.30	—	J. J. Burke.
Enamelling on Metal	Tue-Thrs.	7.30-9.30	—	J. J. Burke.
Drawing & Design for Leatherwork and Leathercraft	Mon.Wed.-Thrs.	7.30-9.30	—	W. L. Whelan; Miss M. Whelan.
Leatherwork, Stencilling, etc.	Mon.-Thrs.	7.30-9.30	—	W. L. Whelan; Miss M. Whelan.
Design for Art Ironwork	Mon.-Thrs.	7.30-9.30	—	W. L. Whelan.
Commercial Art	Mon.-Thrs.	7.30-9.30	—	W. L. Whelan

ADVANCE DESIGN APPLIED TO CRAFTS.

In these classes exercises will be arranged bearing upon the particular branch of design or handicraft the student desires to follow up.

Advanced designs adapted to special processes of execution: wood-carving, goldsmiths' work, enamelling, metal work, embossing, casting and ironwork; book illustration; process work; wood-engraving; colour printing; furniture and plaster work; designs for schemes of decoration with some important feature carried out in full sizes, or to as large a scale as the limits will allow; designs for important competition to full size or to a large scale, with sketches to show the position the design is meant to occupy.

DAY AND EVENING COURSES

IN

SPECIAL TRADES

Bakery Practice and Technology

BREADMAKING

FLOUR CONFECTIONERY

Boot and Shoe Manufacture

HANDICRAFT

CLICKING and PATTERN CUTTING

FACTORY PRODUCTION

BAKERY PRACTICE AND TECHNOLOGY

The Courses are organised to provide for the full technical training of Bakehouse Apprentices in the theory and practice of Bread-making and Flour Confectionery, during the period of apprenticeship.

The work of the classes is under the supervision of an Advisory Committee representative of the Irish Bakers', Confectioners' and Allied Workers' Union and of the Association of Master Bakers.

The practical classes are conducted on each afternoon excepting Saturday, from 12.30 to 6.30 p.m. The ancillary instruction in Bakery Science and Calculations and in Art is given in Evening Classes.

Time Table

BAKERY PRACTICE AND TECHNOLOGY

FIRST YEAR.

Bakery Practice I ... Wed. 12.30—3.30 Room 20 S. Anthony

SECOND YEAR.

Bakery Practice II ... Fri. 3.30—6.30 Room 20 S. Anthony

Bakery Practice IIb ... Thurs. 3.30—6.30 Room 20 S. Anthony

THIRD YEAR.

Bakery Practice III ... Mon. 3.30—6.30 Room 20 S. Anthony

FOURTH YEAR.

Bakery Practice IV ... Tues. 3.30—6.30 Room 20 S. Anthony

JOURNEYMEN CLASSES.

Section A ... Wed. 3.30—6.30 Room 20 S. Anthony

Section B ... Thurs. 3.30—6.30 Room 20 S. Anthony

WOMEN CONFECTIONERS.

Flour Confectionery I ... Tues 7.30—10.0 Room 20. S. Anthony

CERTIFICATE COURSES IN BREADMAKING AND FLOUR CONFECTIONERY

The Certificate Courses in both subjects follow the Syllabuses of the Examinations of the City and Guilds of London Institute. The requisite ancillary subjects to Bakery Practice include Physics, Chemistry, Cereal Science, Microbiology and Decorative Art.

The classes in ancillary subjects to be taken by the student in each year of a Course will be determined in consultation with the Principal.

BOOT AND SHOE MANUFACTURE

HANDICRAFT AND FACTORY OPERATIVE COURSES.

The aim of these classes is to give a knowledge of the various branches of the trade to apprentices and improvers, who, owing to the increased use of machinery, are usually confined to one of the many branches of the Boot Trade.

Several machines have been added to the equipment.

DAY APPRENTICE SCHOLARSHIP COURSE

BOOTMAKING

This Full-time Day Course extends over two Sessions and is conducted under the terms of the Day Apprentice Scholarship Scheme. The Course provides 30 hours of instruction per week, of which approximately 20 hours are devoted to practical instruction in Boot-making.

EVENING COURSES AND TIME TABLE

HANDICRAFT.

					Room	
Boot and Shoe Making—I.	...	M., W.	8.0-10.0	...	3	... P. J. Casey
Boot and Shoe Making—II.	...	Tu., W.	8.0-10.0	...	3	... P. J. Casey
Boot and Shoe Making—III.	...	Tu., Th.	8.0-10.0	...	3	... P. J. Casey

BOOT FACTORY OPERATIVES' COURSE.

					Room	
Clicking and Pattern Cutting—I....	M.	8.0-10.0	...	14	...	P. J. Casey
Factory Methods & Operations—I.	W.	8.0-10.0	...	14	...	P. J. Casey

GENERAL CURRICULUM OF THE SCHOOLS
UNDER THE CONTROL OF
THE CITY OF DUBLIN VOCATIONAL EDUCATION
COMMITTEE.

BOLTON STREET TECHNICAL SCHOOL.

Mechanical Engineering.	Building Science.
Motor Car Engineering.	Building and Allied Trades.
Gas Engineering.	Printing and Book Production.
Metal Plate Work.	Watchmaking.
Brass Finishing	Art and Art Crafts.
Day Apprentice and specialised Daytime Technical Courses.	
Day Junior Technical School	

KEVIN STREET TECHNICAL INSTITUTE.

Pure and Applied Mathematics.	Radio-Telegraphy
Pure and Applied Physics.	Art and Art Crafts.
Pure and Applied Chemistry.	Domestic Science and Housecraft.
Bacteriology.	Bakery Science and Practice.
Pharmacy.	Bootmaking.
Electrical Engineering and Allied Trades.	Hairdressing.
	Tailoring.

PARNELL SQUARE TECHNICAL INSTITUTE.

General Commercial Subjects.	Transport.
Accountancy and Allied Subjects.	Day Trade Classes:—
Languages.	Shirtmaking (Power).
Retail Distribution.	Clothing Manufacture (Power).
Physical Training.	
Day School of Commerce.	

GENERAL CURRICULUM OF THE SCHOOLS
UNDER THE CONTROL OF
THE CITY OF DUBLIN VOCATIONAL EDUCATION
COMMITTEE.

PEMBROKE TECHNICAL INSTITUTE (Ringsend and Ballsbridge).

General Commercial Subjects.	Mechanical Engineering.
Retail Distribution.	Motor Car Engineering.
Languages.	Oxy-Acetylene and Electric
Domestic Science and Housecraft.	Welding.
Art and Art Crafts.	Woodworking Trades.
	Day School of Commerce.
	Day Junior Technical School (Boys).
	Day Technical Course (Girls).
	Special Apprentice Training Centres.

RATHMINES TECHNICAL INSTITUTE.

General Commercial Subjects.	Banking Finance and Foreign
Accountancy, Auditing and Allied	Exchange.
Subjects.	Company Secretaries
Insurance.	Government Accountancy and
Advertising and Publicity.	Finance.
Physical Training.	Languages.
Domestic Science and Housecraft	
	Day School of Commerce.
	Day Technical Course (Girls).

MARINO TECHNICAL INSTITUTE.

General Commercial Subjects.	Metalwork.
Languages.	Woodwork.
Domestic Science and Housecraft.	Physical Training.
	Day Junior Technical School (Boys and Girls).
	Day School of Commerce.

CHATHAM ROW SCHOOL OF MUSIC (Day and Evening Classes).

Pianoforte.	Wind Instruments (Wood and
Violoncello.	Brass).
Uilleann and Irish War Pipes	Fifes.
Elocution.	Viola.
Violin.	Orchestra.
Singing and Choir.	Drums and Flute.
Organ.	Traditional Music.
	Irish Harp.

Offices—

TECHNICAL INSTITUTE,
BOLTON STREET,
DUBLIN

H. F. THUNDER,
Acting Chief Executive Officer.