
Prospectus: Kevin Street

Kevin Street College

1953-9

Institute of Science and Technology, Kevin Street : Programme for Session 1953 -1954

City of Dublin Vocational Educational Committee

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COISDE SHIRM-OIDEACAIS CAITAIR ÁTA CLIAĀ

FORAS NA SAOIS
nDÉANTÚSAC
SRÁIO CAOIMÍN

*

ROINN NA HEOLUÍOĀTA
ROINN NA n-INNEALTÓIREACĀTA LEICTRIGE
ROINN NA n-INNEALTÓIREACĀTA
TELEGRAFUÍOĀTA

*

buneolaire
1953-54

CALENDAR—SESSION 1953/54

- 1953—SEPT. 7 Monday - Whole-time Day Schools and Part-time Day Classes open for enrolment and Day Apprentice Schools resume work.
- 14 Monday - Evening Classes open for enrolment and Whole-time and Part-time Day Classes commence work.
- 21 Monday - Evening Classes commence work.
- OCT. 12 Monday - Enrolment subsequent to this date may be made only on the authority of the Principal.
- NOV. 1 Sunday - *All Saints' Day.*
- DEC. 8 Tuesday - *Feast of Immaculate Conception.* Whole-time Day Schools, excepting Day Apprentice Schools and Special Classes, closed. Evening Classes remain open.
- 18 Friday - Final Class Meetings before Christmas Vacation.
- 25 Friday - *Christmas Day.*
- 1954—JAN. 1 Friday - *New Year's Day.*
- 4 Monday - All Classes resume work after Christmas Vacation.
- 6 Wednes. - *Feast of the Epiphany.* Whole-time Day Schools, excepting Day Apprentice Schools and Special Classes closed, Evening Classes remain open.
- MAR. 17 Wednes. - *St. Patrick's Day.* All Schools closed.
- APR. 13 Tuesday - Final Class Meetings before Easter Vacation.
- 16 Friday - *Good Friday.*
- 18 Sunday - *Easter Sunday.*
- 26 Monday - All Classes resume Work after Easter Vacation.
- 30 Friday - Final Meetings of Evening Classes, except where otherwise arranged.
- MAY 27 Thurs. - *Ascension Day.* Whole-time Day Schools, excepting Day Apprentice Schools and Special Classes, closed.
- 29 Saturday - Irish Proficiency Entrance Scholarship Examination.
- JUNE 6 Sunday - *Whit Sunday.*
- 7 Monday - *Whit Monday.* Schools closed.
- 12 Saturday - General Proficiency Entrance Scholarship Examination.
- 17 Thurs. - *Feast of Corpus Christi.* Whole-time Day Schools, excepting Day Apprentice Schools and Special Classes, closed.
- 26 Saturday - Summer Term closes except where otherwise arranged.
- 29 Tuesday - *Feast of SS. Peter and Paul.*

Schools closed on all Bank Holidays not specified in above Calendar

INSTITUTE OF SCIENCE AND TECHNOLOGY

KEVIN STREET, DUBLIN

TELEPHONE: 51801

Principal:

MARTIN J. CRANLEY, M.Sc., A.R.I.C., M.I.C.I.

Programme for Session 1953-54

AUTUMN TERM:

Monday, 7th September, to Saturday, 19th December, 1953.

Full-time Day Course Enrolments: Week commencing
7th September, 1953.

Part-time Day Course Enrolments: Week commencing
7th September, 1953.

Evening Course Enrolments: Week commencing 14th
September, 1953.

Autumn Term Examinations commence 7th December,
1953.

LENT TERM:

Monday, 4th January, to Tuesday, 13th April, 1954.

Term Course Enrolments: Week commencing 4th
January, 1954.

Lent Term Examinations (Day School) and Sessional
Examinations (Evening School) commence 5th April,
1954.

SUMMER TERM:

Wednesday, 26th April, to Saturday, 26th June, 1954.

Term Course Enrolments commence 26th April, 1954.

Sessional Examinations commence 7th June, 1954.

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CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE

Very Rev. John Canon Fitzpatrick, M.A., D.D., P.P., V.G. (Chairman),
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Clare Street, Dublin.

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Alderman John McCann, T.D., 68 Fortfield Road, Terenure, Dublin.

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Councillor Bhalter Breathnach, 58 Bannow Road, Cabra West, Dublin.

Councillor Thomas Cosgrave, 32 College Street, Baldoy, Co. Dublin.

Councillor Timothy J. Murray, P.C., "Cresswell," 9 St. Peter's Road,
Phibsboro', Dublin.

Mr. W. J. Whelan, 61 Lower Beechwood Avenue, Ranelagh, Dublin.

Mr. Eamonn Delaney, 29 Oulton Road, Clontarf, Dublin.

Micheal O Muircheartaigh (Commdt.), 56 Vernon Avenue, Clontarf,
Dublin.

Mrs. Mary Mulvey, P.C., Co.C., Readsdales, Main Street, Dundrum,
Co. Dublin.

Micheal O Foghludha, 21 The Rise, Glasnevin, Dublin.

Offices:—Town Hall, Merrion Road, Ballsbridge, Dublin.

MARTIN M. GLEESON, M.A., B.Comm., H.Dip.Ed.
Chief Executive Officer.

INSTITUTE OF SCIENCE AND TECHNOLOGY LOCAL SUBCOMMITTEE

Very Rev. John Canon Fitzpatrick, M.A., D.D., P.P., V.G., "St. Cronan's,"
Parochial House, Bray, Co. Wicklow.

Mr. J. Andrews, B.Sc., Messrs. A. Guinness, Son & Co. (Dublin) Ltd.

Mr. John Swift, Four Provinces House, Harcourt Street, Dublin.

Mr. W. J. Whelan, 61 Lower Beechwood Avenue, Ranelagh, Dublin.

Mr. James Larkin, T.D., 5a College Street, Dublin.

Mr. Philip Brady, M.P.S.I., 14 Leicester Avenue, Rathgar, Dublin.

Office:—Institute of Science and Technology, Lr. Kevin Street, Phone 51801.

ADVISORY AND EDUCATION SUB-COMMITTEES

THE PRINCIPAL and STAFF TEACHERS acting in collaboration with:—

AIR NAVIGATION

- R. W. O'SULLIVAN, Chief Aeronautical Officer } Department of Industry
CAPT. J. P. SAUL } and Commerce.
Civil Aviation Section
- T. P. BYRNE, Assistant Staff and Services Manager, Aer Lingus, Dublin Airport.
- CAPT. GORDON WADE, Chief Instructor, Aer Lingus, Dublin Airport.
- CAPT. J. C. DEVOY, District Operations Manager, Trans-World Airlines, Inc., Shannon Airport.
- CAPT. B. FLANAGAN, Chief Instructor, Air Navigation Courses.
- M. J. O'FLANAGAN, B.E., Department of Education, Technical Instruction Branch,
- M. SHEEHY, A.R.C.S.C.I., Department of Education, Technical Instruction Branch.

BAKERY

Irish Bakers', Confectioners' and Allied Workers' Union:

J. SWIFT (Chairman) J. KANE J. BYRNE
G. LAWLER P. FLANAGAN J. HALPIN

Dublin Master Bakers' Committee:

L. KENNEDY H. E. O'DONOHUE G. RORKE

Guild of Irish Bakers:

MICHAEL DEMPSEY P. J. MACMAHON

J. D. DENIS MITCHELL, Confectionery Trade Branch, F.U.E.

BOOTMAKING AND MANUFACTURE

A. SMALLEY: Jas. Winstanley, Ltd.

H. SMITHSON: S. A. Wiltshire & Co. Ltd.

Handicraft Trade:

C. CRONIN T. B. HEALY L. DONOHUE C. ENGLISH

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Theatre and Cinema Managers' Association.

M. BAUM J. BRENNAN J. SHERCLIFFE

Cinema Branch, I.T.G.W.U.:

F. ROBBINS R. CRAWFORD T. FARRELL

ELECTRICAL INSTALLATION WORK

Representatives of the following Bodies:—

ELECTRICITY SUPPLY BOARD.

ELECTRICAL CONTRACTORS' ASSOCIATION.

CORAS IOMPAIR EIREANN.

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IRISH ENGINEERING, INDUSTRIAL AND ELECTRICAL TRADE UNION.

ELECTRICAL TRADES' UNION.

FLOUR MILLING

GEORGE SHACKLETON, Geo. Shackleton & Sons, Ltd., Lucan.

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WILLIAM FOWLER, Dock Milling Co., Ltd.

W. J. DE LACY, Johnston, Mooney & O'Brien, Ltd.

ROBERT MACQUILLAN, National Flour Mills, Ltd., Cork.

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THE PRESIDENT AND TWO MEMBERS OF COUNCIL, ASSOCIATION OF
OPHTHALMIC OPTICIANS, IRELAND.

RADIO SERVICE WORK

Irish Transport and General Workers' Union:
W. L. McALLISTER W. McFARLANE

Wireless Dealers' Association

J. J. McCANN, Secretary. W. B. DALTON (Douglas Radio)
J. E. KEATES (Radio Vision) J. M. O'TOOLE (O'Toole & Sons) Ltd.

Radio Service Branch, F.U.E.:

F. W. BROWNLEE (Brownlee Bros. Ltd.) G. HOLLAND (Walker's Ltd.)

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PROF. T. S. WHEELER, D.S.C., F.R.I.C., F.I.C.I., Professor of Chemistry, U.C.D.
(Chairman).

MR. J. ANDREWS, B.S.C., F.R.I.C., F.I.C.I., Chief Chemist, Messrs. Arthur
Guinness, Son & Co. (Dublin) Limited.

PROF. W. COCKER, SC.D., F.R.I.C., F.I.C.I., Professor of Chemistry, T.C.D.

DR. A. G. G. LEONARD, F.R.I.C., F.I.C.I., Lecturer in Physical Chemistry,
U.C.D.

MR. P. A. MCKENNA, M.S.C., A.R.C.S.C.I., Inspector, Department of Education
(Technical Instruction Branch).

PROF. T. E. NEVIN, Professor of Physics, U.C.D.

MR. M. J. CRANLEY, Principal.

Firms who co-operate with the Institute by releasing employees for Part-time Day Classes

ELECTRICAL CONTRACTORS AND OTHER FIRMS EMPLOYING ELECTRICAL APPRENTICES

Electricity Supply Board	Dublin Port and Docks Board
Dublin Corporation (Public Lighting Department)	Coras Iompair Eireann
Messrs. Waygood-Otis Ltd.	Great Northern Railway
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Messrs. Weatherwell Ltd.	Messrs. A. Guinness, Son & Co. (Dublin) Ltd.
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Messrs. L. Daly	Messrs. Liffey Dockyard Ltd.
Messrs. Lawless Bros.	Messrs. F. Barrett & Co.
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Messrs. John Power & Sons Ltd.	Messrs. E. Brennan
Messrs. L. C. G. Leonard	Messrs. Matthew Hall & Co. Ltd.
Messrs. K. Doherty Ltd.	

CINEMAS

Fairview Cinema	Plaza Cinema
Inchicore Cinema	Drumcondra Cinema
Regal Cinema (Ringsend)	Royal Cinema (Bray)
Bohemian Cinema	Killester Cinema
Capitol Theatre	Savoy Cinema
Tivoli Cinema	Carlton Cinema
Princess Cinema	New Electric Cinema
Lyric Cinema	Majestic Cinema (Chapelizod)
Regal Rooms	Pavilion Cinema (Dun Laoghaire)
Forum Cinema	Broadway Cinema
Stephen's Green Cinema	Masterpiece Cinema
Adelphi Cinema	Grand Cinema (Sutton)
Cabra Grand Cinema	Stella Cinema (Rathmines)
Sandford Cinema	Adelphi Cinema (Dun Laoghaire)
Sundrive Cinema	

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Messrs. Edwards & Co.	Messrs. J. Dempsey
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INSTITUTE of SCIENCE and TECHNOLOGY

Principal:

MARTIN J. CRANLEY, M.Sc., M.I.C.I., A.R.I.C.

Department of Pure and Applied Science

Head of Department and Senior Lecturer, Physics Division:

Francis Nolan, M.Sc., H.Dip.Ed.

Lecturer-in-Charge, School of Applied Chemistry and Biology:

W. Broderick, M.Sc., H.Dip.Ed., D.P.A. (N.U.I.).

Lecturer-in-Charge, Mathematics Division:

John M. Forde, B.E.

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Miss Frances Doherty, B.Sc.; P. Gallagher, B.Sc., H.Dip.Ed.;
J. McCormack, B.Sc.; M. Sheehy, B.Sc.

Part-time Teachers:

F. J. Barragry, M.P.S.I.; M. Blake, B.E.; W. G. Brady, P. T. Carroll, M.Sc.; C. O. Cearbhaill, B.Sc., A.R.C.Sc.I.; H. C. Clifton, B.A.; Miss V. Corcoran, Dip.Opt.; K. P. Culliton, Dip.Opt.; R. A. D'Arcy, B.Sc.; W. de Lacy, Miss Margt. I. Downes, B.Sc.; B. G. Fagan, B.A., B.Sc., F.R.I.C., A.R.C.Sc.I.; Prof. M. J. Gorman, B.Sc., A.R.C.Sc.I.; H. M. Hand, Assoc. I.E.E.; P. J. Hurley, M.Sc.; Miss M. Kane, Ph.D.; Dr. Nora McNally, T. S. Mason, F.B.O.A.; D. W. Morrissey, M.A., B.Sc., H.Dip.Ed.; H. D. Thornton, F.R.I.C., B.Sc., A.R.C.Sc.I.; A. D. Whelan, B.E.

Department of Electrical Engineering

Head of Department and Senior Lecturer:

William Fegan, A.M.I.E.E., Tech. Dip., City and Guilds.

Lecturer-in-Charge, Electrical Installations and Technology:

William Trundle, Tech. Dip., City and Guilds.

Staff Teachers:

P. Connell, T. Cronin, B.E.; J. D. Fitzpatrick, N. F. Goulding,
E. J. McNamara, I. Tighe.

Part-time Teachers:

B. Brady, J. Broe, P. J. Byrne, B.E., B.Sc.; E. V. Cleary, B.E., A.M.I.E.E., H.Dip.Ed.; J. F. Colbert, B.E.; N. Connolly, J. F. Darcy, W. Dean, P. Finn, J. Foley, J. F. Green, E. C. Hanly, B.E.; T. P. Hardiman, B.E.; J. G. Moore, A. J. Mulvany, G. K. Ring, B.E., A.R.C.Sc.I.; M. J. Shiel, B.E.; C. O. Tallamhain, B.E.; S. O. hUrmoltaigh, B.E.; J. Williams, H. N. Wroe, Ph.D., B.Sc., A.M.I.E.E.

Department of Telecommunications Engineering

Head of Department and Senior Lecturer:

Harold Hodgens, Assoc. I.E.E.

Senior Lecturer, Radio Engineering and Electronics:

Hugh de Lacy, B.E., B.Sc.

Staff Teachers:

J. Blennerhassett, J. V. Honan, A.M.Brit.I.R.E.; M. J. O'Rorke,
M. J. Rice, J. J. Woods, Grad.Brit.I.R.E.

Part-time Teachers:

F. Butler, F. E. Dixon, B.A.; J. W. Devon, B. J. Dixon, B.Sc.,
A.R.C.Sc.I.; D. Doyle, P. J. Flanagan, Capt. B. Flanagan, P. P.
Grimes, T. J. Kelly, A. J. Litton, M.Sc., A.M.I.E.E.; C. McCabe,
J. J. McCowen, J. McDonagh, B.E.; Wm. A. Madigan, T. J.
Murphy, L. O'Donoghue, S. O'Sullivan, M.Sc.; A. W. Patterson,
T. P. Sheridan, B.E.; P. I. Taylor.

School of Bakery

Chief Instructor:

Samuel Anthony, Dip. Nat. Assoc. Master Bakers, Confectioners
and Caterers; Full Technological Diploma, City and Guilds.

Part-time Teachers:

W. Clarke, W. Franey, Tech. Dip., City and Guilds.

Day Apprentice School (Bootmaking)

Staff Teacher:

K. English.

Part-time Teachers:

C. Cronin, T. English.

Irish and English

Staff Teacher:

T. A. G. Dowling, B.A., B.Comm., H.Dip.Ed.

Part-time Teacher:

Cristina Ni Tonnaighe.

Chaplain:—Rev. D. J. Shields, S.J.

Stocktaker:—Francis Nolan, M.Sc., H.Dip.Ed.

Clerical Staff:

Robert J. Day, Senior Clerk; Cornelius G. Lynch, D.P.A. (N.U.I);
Miss Kathleen B. Molloy.

CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE

GENERAL REGULATIONS for the Schools and Classes operating under the Authority of the Committee

1. ADMISSION AND ENROLMENT

(a) In general, applicants for admission to the Classes and Courses must be not less than 14 years of age, but admission to a whole-time Day Course may be granted where the applicant is over 13 years of age and has been enrolled for at least one year in the Sixth Standard of a Primary School. This Regulation does not apply to the School of Music or Colaiste Muire, Cathal Brugha Street.

(b) The Committee, in accordance with the means and facilities at its disposal, has provided classes for the sole purpose of supplementing the practical trade training of persons actually employed at and engaged in the various operations of the trade and whose employment as such is accepted by the recognised Unions of the trades concerned.

(c) In determining whether an applicant for admission to one of these practical trade classes complies with the above conditions the Committee is guided, where necessary, by the evidence supplied by the Masters' Associations and the official Trade Unions of the trade concerned.

(d) Admission to a particular class or course is subject to the published regulations relative to that class or course.

(e) One month after the opening date of classes or courses students will be permitted to enrol only with the special permission of the School Authority.

(f) Pupils in attendance at Primary and Secondary Schools are not eligible for enrolment except by special permission of the School Authority.

(g) The educational fitness of a student to enrol in a particular course may be decided by an examination or other means considered necessary.

(h) A student is not entitled to enrol in a class or course which the School Authority decides is too advanced for his/her standard of knowledge.

(i) Enrolment procedure :—

(i) Intending students must enter on the Enrolment Form supplied all the information required by the School Authority.

(ii) The classes or courses to be taken are decided in interview with a member of the School Staff.

(iii) The appropriate fee is then paid to an officer of the Committee and a receipt issued therefor. A student who pays a fee should insist that he/she receive an official receipt for the amount of the fee paid.

- (iv) The appropriate class ticket/tickets is/are then issued to the student.
- (j) (i) No student may attend a class until he/she has received a class ticket.
- (ii) On first attendance at each class the student must tender to the teacher in charge his/her appropriate class ticket, together with the receipt for fee paid.
- (k) Students will be enrolled during the period and at the times stated in the Committee's publications.
- (l) The School Authority is authorised to refuse an enrolment, pending a decision thereon by the Committee.

2. FEES

(a) The fees payable for the several classes and courses included in the Scheme of Instruction are stated in the publications of the Committee, and must be paid in full on enrolment unless otherwise stated.

(b) Where a course includes subjects of different stages, the total fee will be computed on the basis that the initial fee is that of the highest stage.

(c) For enrolments in subjects ancillary to the original enrolment, in the same or another School or Department, the additional fee will be computed on the basis that all the classes have been selected on first enrolment. Where the additional subjects are deemed not to be ancillary, the fee payable will be as for a separate enrolment.

(d) The School Authority is authorised to decide if the additional enrolment is ancillary to the original enrolment.

(e) For fee purposes, Irish and/or Physical Training will be regarded as additional subjects to any class or course.

(f) Fees will not be refunded except where a class does not form.

(g) Cheques should be crossed and made payable to the City of Dublin Vocational Education Committee.

3. TRANSFERS

An enrolment is not transferable from one student to another. Transfer from one class to another, from one School to another, from Day Classes to Evening Classes, or from Evening Classes to Day Classes, with allowance for the fees paid, will be permitted only for a satisfactory reason and by special permission of the School Authority.

4. PRODUCTION OF ORIGINAL RECEIPT

Where applications are made for additional enrolments, or for transfers, the original receipt must be produced.

5. FORMATION AND CONTINUANCE OF CLASSES

The Committee reserves the right at any time to add or delete classes or courses to or from its Scheme of Instruction; to extend the period of a class; and to close a class, or to alter the day or times of a class meeting.

6. DISCIPLINE

The School Authority may suspend any student for breach of rules and regulations; absence from classes; irregular or unpunctual attendance; disorderly conduct in the School or within the School precincts; disobedience to a member of the staff; or for any other reason deemed sufficient. The Committee reserves the right to confirm such suspension and to cancel the enrolment without refund of fee. Where immediate action is required because of indiscipline on the part of the students, any member of the School Staff has authority to take appropriate measures, pending report to the School Authority.

7. SMOKING

Smoking is not permitted in the Schools.

8. INJURY TO STUDENTS

The Committee does not accept responsibility for injury to students resulting from careless conduct or neglect or disregard of regulations.

9. STUDENT PROPERTY

The Committee does not accept any responsibility for loss of or damage to any student property—bicycles, hats, coats, books, etc.

10. SCHOOL PROPERTY

Where School property is damaged wilfully or through careless conduct on the part of students, such students (or their parents or guardians) may be required, on the order of the Committee, to pay for such repairs or replacements as may be necessary.

11. CHANGE OF ADDRESS

Students should notify the School Authority of any change of address.

12. BOOKS, STATIONERY, EQUIPMENT, DRESS

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

13. INFECTIOUS AND NOTIFIABLE DISEASES

The head of the household must inform the School Authority immediately of any infectious or notifiable disease which may occur in the house in which a student is residing. Such a student must not resume attendance until permitted to do so by a medical officer.

14. EXAMINATIONS

Permission to sit for Scholarship, Sessional or other Examinations held under the authority of the Committee, will be governed by the conditions relevant to the examinations.

15. SCHOOL AUTHORITY

The term "School Authority," as used in these Regulations, indicates the Chief Executive Officer, or an officer delegated to act on his behalf.

The above Regulations have been adopted by Resolution of the Vocational Education Committee for the City of Dublin and approved by the Minister for Education.

REGULATIONS GOVERNING THE ADMISSION OF STUDENTS TO CLASSES AND COURSES

ENROLMENT

In general, applicants for admission to all Day Courses, other than the Junior Course in Electrotechnology and Engineering Science, must not be under sixteen years of age.

Intending students are required to show evidence of ability to profit by the instruction before being approved for admission to any stage of a particular Course.

Acceptance for admission to any Course of Study must be certified on the standard enrolment form by the responsible Lecturer or Instructor, or by the Principal.

The requisite Course Fees, together with the completed form of enrolment, must be lodged in the office of the Institute; the sole certification of enrolment in a Course is the official receipt for the Course Fees paid.

Registration on Class Rolls and entry on the Course of Study provided by any Class may be made only on presentation to the Lecturer or Instructor in control of the Class of the appropriate official Course receipt and Class Ticket.

SESSIONAL EXAMINATIONS AND CLASS PROMOTION REGULATIONS

Examinations are held at end of Session in respect of each class-subject; no student shall be admitted to the Examinations who has not made at least three-fourths of the possible attendance, except in very special circumstances and at the discretion of the Principal.

Promotion to a Higher Stage of instruction in any subject is contingent on passing the Sessional Examinations in the Lower Stage.

An Experimental Record Book is required to be maintained by each student of a Laboratory Class; an assessment shall be made at end of Session of each student's progress in laboratory technique and experimental ability.

TRADE CLASSES

These classes are provided for the sole purpose of supplementing the practical trade training of persons actually employed at and engaged in the various operations of the trade.

For admission to Trade Classes proof of actual employment in the several processes and operations of the trade will be certified to that effect from the Masters' Associations and/or the official Trade Unions of the trade concerned.

Enrolment subsequent to Monday, 12th October, 1953, may be made only on the authority of the Principal.

DAY COURSE FEES: SCIENCE AND TECHNOLOGY

WHOLE-TIME DAY COURSES £ s. d.

Junior Course: Electrotechnology and Engineering				
Science	per Session	1	10	0
Electrical Installation Work and Electrotechnology				
(Apprentices)	per Term	1	10	0
Preparatory Course: Electrical and Radiotechnology				
... ..	per Session	4	0	0
Pre-University and Preliminary Professional Science				
Courses	per Term	4	0	0
Senior Science Course	per Session	20	0	0
Testing, Maintenance and Servicing of Radio Equipment				
... ..	per Session	8	0	0
Training and Certification of Radio Officers	per Term	5	0	0
Electrical Engineering and Radio Engineering	per Term	4	0	0
Radar Maintenance Certificate Course	per Term	5	0	0
Summer Course for Opticians:				
Part I (Practical) ... ..	... ..	4	0	0
Part II and III (Practical) ... ..	... ..	4	0	0
One Subject only ... ..	... ..	2	0	0

PART-TIME DAY COURSES

Electrical Installation Work	per Session	1	10	0
Electrical Engineering Technology	per Session	1	10	0
Laboratory Technician's Course	per Session	1	10	0
Projection Science and Technology (Cinema Apprentices)				
... ..	per Session	1	10	0
Bakery Practice and Technology (Apprentices)	per Session	1	10	0
Breadmaking and Flour Confectionery	per Session	1	10	0

Single Subjects. (See list, Page 30.)

EVENING COURSE FEES: SCIENCE AND TECHNOLOGY

Applied Chemistry:			£	s.	d.
Intermediate Grades ... ..	... ..	... ..	1	10	0
Final Grades ... ..	... ..	... ..	2	0	0
Industrial Bacteriology ... ..	... ..	... ..	2	0	0
Specialised Technical Analysis ... ..	... ..	... ..	2	0	0
Pharmaceutical Chemistry (Lec. and Lab.) ... ..	... ..	... ..	4	0	0
Ditto, ditto (Lectures) ... ..	... ..	... ..	2	10	0
Ditto, ditto (Lab. Certificate) ... ..	... ..	... ..	1	10	0
Ditto, ditto (Practice) ... ..	... ..	per Term	1	10	0
Pharmacy (Practical) ... ..	... ..	per Term	1	10	0

ELECTRICAL TECHNOLOGY AND ENGINEERING PRACTICE; ELECTRICAL INSTALLATION WORK (Course C.); RADIO SERVICE WORK; TELECOMMUNICATIONS ENGINEERING; FLOUR MILLING TECHNOLOGY; PHYSICS; MATHEMATICS :				£	s.	d.
Preliminary and Intermediate Courses	...	...	...	0	15	0
Final Courses	...	..	...	1	10	0
Flour Confectionery Decoration	...	...	...	1	10	0
DRAWING OFFICE TRACER'S COURSE	...	...	...	2	0	0
ASSOCIATE MEMBERSHIP COURSE (I.E.E.):						
First year, Part I	...	...	...	1	0	0
Second year, Part II	...	...	...	1	10	0
Third year, Part III	...	...	...	1	10	0
CERTIFICATION COURSES FOR OPTICIANS :						
Part I	...	...	...	4	0	0
Part II	...	...	...	4	0	0
Part III	...	...	...	4	0	0
One subject only	...	...	...	2	0	0
ADVANCED PRACTICAL PHYSICS	...		per Term	1	10	0
CERTIFICATION COURSES FOR RADIO OFFICERS :						
Practical Radio	...	...	...	3	0	0
Radiotechnology	...	...	...	3	0	0
Telegraphy Practice (Morse)	...	...	...	1	10	0
Alternating Current	...	...	Summer Term	1	10	0
GRADUATESHIP (B.I.R.E.):						
Part I	...	...	...	1	10	0
Part II	...	...	...	1	10	0
Part III	...	...	...	1	10	0
AIR NAVIGATION COURSES :						
Commercial Pilot's Licence	...		per Session	6	0	0
Senior Commercial Pilot's Licence	...		per Session	8	0	0
Flight Navigator's Licence	...		per Session	12	0	0
Aircraft Dispatcher's Course	...		per Session	10	0	0
Flight Operations and Meteorology for Airline Transport Pilot's Licence			for course of one Term	3	0	0
Technical Examination for Instrument Rating			for course of one Term	2	0	0
All other Evening Courses (each Stage)	...	...	...	0	15	0

JUNIOR DAY SCHOOL

1D. Full-time Junior Course—Electrotechnology and Engineering Science

(Session—September to June)

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, Mechanics, Electrical Technology and Workshop Practice, and in Irish and English and Religious Instruction.

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 prior to enrolment. Students accepted for enrolment must provide themselves with the following requisites :

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

Sessional Fee, 30/-.

Subject	Hours per Week	
	First Year	Second Year
Magnetism and Electricity	6	—
Electrical Engineering	—	6
General Science	1½	—
Physics	—	3
Mathematics	4½	4½
Drawing	3	2
Workshop Practice	6	5½
Irish	3	3
English	2	2
Religious Knowledge	1	1

2D. Full-time Preparatory Course—Electrical and Radio Technology

(Session—September to June.)

The Course is intended for students with the requisite standard of general education who intend to enter Electrical Trades but who are over the age limit for the two-year Junior Course (1D).

The requisite Entrance Standard of general education is equivalent to that connoted by the Third Year of the Intermediate Certificate (Secondary Schools).

Sessional Fee, £4.

Subjects	Hours per Week
Magnetism and Electricity	6
Mathematics	7½
Mechanics	3
Physics	3
Drawing	2
Workshop Practice	5
Irish	1½
English	3
Religious Knowledge	1

SENIOR DAY SCHOOL

3D. Senior Science Course Two-year Whole-time Day Course

The Senior Science Course provides an intensive and thorough training in the basic sciences to a standard equivalent to that of the Intermediate Examination for the B.Sc. Degree of the University of London and will thus provide a good foundation for subsequent specialised scientific and technological training. The subjects of the Course and the number of hours per week allocated to them during two sessions of approximately 35 weeks per session are:—

Irish	...	...	...	...	3
English	...	...	...	...	3
Mathematics	...	...	...	...	6
Physics	...	...	...	...	6
Chemistry	...	...	...	...	6
Biology	...	...	...	...	2½
Mechanics	...	...	...	...	3
Workshop Practice (Elementary and Metalwork)	...	...	...	...	3
TOTAL					32½

Prospective students should be approximately 16 years of age on entry to the Course and should have already obtained, as a minimum, the Manual Training Group Certificate of the Department of Education (Technical Instruction Branch) or the Intermediate Certificate of the Department of Education (Secondary Branch).

It should be clearly understood that, because of the high standard of the syllabi in the Course, only the best junior technical school or Intermediate Certificate secondary school students can enter on the Course with good prospects of success.

It is anticipated that the majority of the successful students of this Course will enter those industries which utilise scientific processes. They would be qualified to work as inspectors, chargehands, technicians, laboratory assistants, etc. By means of subsequent attendance at appropriate evening courses in this Institute, or, by arrangement with employers, at part-time day release courses in this Institute, they may proceed to a Degree in Science or, alternatively, specialise in a particular branch of science such as Analytical Chemistry, Food and Drug Analysis, Bacteriology, Chemical Technology, etc. Students with this type of training and experience would, within a few years, be suitably qualified for positions as Industrial Chemists, Analytical Chemists, Production Managers, Works Managers, Works Foremen, etc., all of whom have a vital role to play in ensuring the efficiency of industrial production.

While the object of the Course is primarily to prepare students for these types of employment, it also caters for students who propose to enter the engineering profession. The syllabi of the Course have been drawn up in such a way that the first year of it will prepare Junior Technical School students for the Common Preliminary Examination of the Joint Engineering Examination Board. This examination is equivalent to Matriculation for entry to the Mechanical, Electrical, Civil or Radio Engineering professions. In this respect, the Course provides for such a student an avenue of ascent to the professional level which has hitherto rarely been available.

Course Fee:—The fee for the Course is £20 per session.

SCHOLARSHIPS

The City of Dublin Vocational Education Committee offers 16 Scholarships, each valued £20 per annum and tenable for two years, to boys between the ages of 15 and 17 years on the 1st January preceding. Details of these Scholarships are given in the "Scholarships and Prizes" section at the end of this Prospectus.

4D. Full-time Course—Pre-University Course in Mathematics and Science Subjects

September to June: Three Terms

The Course provides a thorough general scientific training suited to the requirements of students who intend to enter scientific occupations as PHARMACEUTICAL CHEMISTS, OPTICIANS, RADIOLOGISTS, METEOROLOGICAL ASSISTANTS, etc.

The Course also serves 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.

Intending students should consult the Principal.

Science Students preparing for Matriculation Examinations are advised to take advantage of the Matric. (N.U.I.) Day Course in the High School of Commerce, Rathmines, for the subjects Irish, English, French, Mathematics, and History and Geography, where a co-ordination of time-tables may be made.

The Syllabuses of instruction generally conform with those of the Department of Education (T.I.B.) and with those for the Matriculation and First University Examinations of the National University.

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; Botany; Biology; Workshop Practice; Technical Drawing; English.

Per Term, £4; Three Terms, £12.

Day Science and Mathematics Classes, Providing "Options" for Special Courses

(Pre-University, Optical, Radiography, Pharmaceutical, etc.)

(SEPTEMBER—JUNE)

Subject	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Teacher
Mathematics S.1	—	2.0—3.30	—	2.0—3.30	2.0—3.30	—	J. G. McCormack
Applied Mathematics S.2 ...	—	3.30—5.0	—	3.30—5.0	—	—	J. G. McCormack
Physics S.3	9.30—12.30	—	9.30—12.30	—	—	—	Miss F. Doherty
19 Physics for Engineering S.4 ...	11.0—12.30	—	2.0—5.0	—	—	9.30—11.0	J. G. McCormack
Chemistry and Physics (Tutorial)	—	—	—	—	9.30—12.30	—	W. Broderick
Chemistry S.5	—	9.30—12.30	—	9.30—12.30	—	—	Miss F. Doherty
Organic Chemistry S.6 ...	2.30—5.0	—	—	—	—	—	W. Broderick
Biology S.9	—	—	2.30—5.0	—	2.30—5.0	—	Miss F. Doherty
Magnetism and Electricity S.13 ...	2.0—5.0	—	9.30—11.0	—	9.30—11.0	—	J. M. Forde
Technical Drawing S.12	—	—	—	—	—	11.0—12.30	T. Cronin

DAY COURSES

5D. Full-time Course—Radio Service Work

(Testing, Maintenance and Servicing of Radio Equipment.)

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

Applicants should not be less than sixteen years of age and should hold the Primary School Leaving Certificate, and in addition have at least one year's whole-time tuition in a technical or secondary school.

Not more than fifteen students will be enrolled in any one year of the Course.

Prior consideration in enrolment will be given to applicants seeking admission to apprenticeship in the Radio Trade and who are suitably qualified in other respects for enrolment.

The period of enrolment shall be during the first fortnight of the Session. Subsequent enrolment may be made only in special circumstances and then only on the authority of the Principal.

Sessional Fee, £8.

(Session—September to June.)

Course of Instruction

The Course provides approximately 27 hours instruction per week in the following subjects:—

Magnetism and Electricity; Electrical Calculations; Alternating Current Theory; Radio Theory; Electronics; Testing, Maintenance and Servicing Radio Equipment; Drawing, and Business Methods.

In the Second Year of the Course the greater part of the time is devoted to Practical Service Work.

Students are expected to sit for the examinations in Radio Service Work of the Department of Education and the City and Guilds of London Institute, held during the Summer Term each year.

The School is equipped with adequate modern Radio Service and Testing Equipment, Broadcast Radio Receivers of representative types, and various electrical and radio components.

Subject	Hours per Week	
	First Year	Second Year
Magnetism and Electricity	5	—
Alternate Current Theory	—	1½
Practical Radio Service	14½	13½
Radio Theory	4½	4½
Electronics	—	2½
Mathematics	1½	—
English	1½	—
Drawing	1½	—
Business Methods	—	2

DAY COURSES

6D. Full-time Courses for the Training and Certification of Radio Officers (Mercantile Marine and Aircraft)

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 Marine and Aircraft Apparatus, and includes training in sending and receiving in the Morse Code, operating procedure and the handling of traffic, and in the International Regulations.

ENROLMENT AND PERIOD OF TRAINING

Enrolment may be effected at any period during the first fortnight in September and January in each Session. The duration of the period of training requisite for the acquirement of a State Certificate of the First Class is approximately two Sessions.

EXAMINATIONS

The State Certificate Examinations are conducted in the School during December and July in each session by examiners appointed by the Department of Posts and Telegraphs. The syllabuses of Examination subjects are those defined by the International Radio Regulations (Telecommunications) Convention, Atlantic City, 1947. State Certificates confer eligibility for employment as Radio Officer in Mercantile Marine Services (Ireland and British Commonwealth).

ADMISSION

Students are expected to have a standard of general education equivalent to that of the Intermediate Certificate. A good standard in mathematics is essential.

Course Fee:—£5 per Term.

EQUIPMENT

The School is fully equipped with the latest Marine Radio Apparatus.

Transmitter—Marconi "Oceanspan", medium and high frequencies, main and emergency, for M.C.W. or C.W. transmission.

Communications Receivers—Marconi Superheterodyne Receivers, types "Electra" and "Mercury", covering frequencies 15 Kc/s to 25 Mc/s.

Direction Finder—Marconi "Lodestone" employing Bellini Tosi fixed loops and a 5-valve Medium Frequency Superheterodyne Receiver.

Automatic Alarm, Type M, Signal Receiver and Selector.

DAY COURSES

Full-time Day Course for the Training and Certification of Radio Officers for the Mercantile Marine Services

(September to June)

The subjects of the Course and the allocation of hours are as follows :—

FIRST YEAR (Sections C and D)			
Subject			Hours per week
Magnetism and Electricity	...	...	6
Typewriting	...	...	1½
International Regulations	...	...	1½
Morse	...	...	18½
TOTAL			27½

SECOND YEAR (Sections A and B)			
Subject			Hours per week
Electrotechnology	...	...	2½
Electrical Calculations	...	...	1½
Radio Theory	...	...	4½
Practical Radio	...	...	9
International Regulations	...	...	1½
Morse	...	...	8½
TOTAL			27½

7D. Full-time Course in Electrical Engineering and Radio Engineering

This Course, conducted over three Sessions, enables students to qualify for the Graduateship of the Institution of Electrical Engineers (Grad. I.E.E.) in Radio Communications or Electrical Engineering or for Graduateship of the British Institution of Radio Engineers (Grad. Brit. I.R.E.).

The first two years of the Course meet the requirements of both electrical and radio engineering students. At the end of the first year, students who have not already passed or been exempted from the Common Preliminary Examination of the Engineering Joint Examination Board will be required to sit for it. First-year students also sit for the Part I examination for Grad. Brit. I.R.E. and City and Guilds of London Institute examinations in Telecommunications Principles I and II. The second year of the Course prepares students for the Joint Section A examination for Grad. I.E.E. and the City and Guilds of London Institute examinations in Radio II and Telecommunications III.

In the third year of the Course students specialise in either radio engineering or electrical engineering. All students can sit for the Section B examination for Grad. I.E.E. Students who have specialised in radio engineering can also sit for the Grad. Brit. I.R.E. examination.

ENTRY TO THE COURSE:—Intending students must fulfil *either* of the following requirements: (1) Hold Matriculation or Leaving Certificate. (Such students may be required to attend one or two evening classes to complete the requirements for the Common Preliminary Examination), *or* (2) Have passed the Common Preliminary Examination. (The first year of the Senior Science Course, see Course 3D, prepares students for this examination.)

The syllabi of the Course conform with the examination requirement of the Institution of Electrical Engineers, the British Institution of Radio Engineers and the City and Guilds of London Institute.

The subjects of the Course and the allocation of hours are as follows:—

FIRST YEAR				
Subject				Hours per week
Mathematics	...	...	...	4½
Physics	...	...	...	6
Mechanics	...	...	...	3
Magnetism and Electricity	...	...	...	6
English	...	...	...	1½
Radio Theory	...	...	...	7½
Radio Laboratory	...	...	...	3
Drawing	...	...	...	1½
TOTAL				33

SECOND YEAR				
Subject				Hours per week
Heat and Thermodynamics	...	...	...	3
Principles of Electricity	...	...	...	3
Applied Mechanics	...	...	...	6
Mathematics	...	...	...	6
Radio Theory	...	...	...	7
Radio Laboratory	...	...	...	6
Radio Service	...	...	...	2
TOTAL				33

THIRD YEAR

All students takes the following:—

Subject				Hours per week
Electrotechnology	...	...	...	10½
Costing	...	...	...	1½
Mathematics	...	...	...	3
TOTAL				15

DAY COURSES

In addition, students who desire to specialise in Radio Engineering will study

Subject	Hours per week
Radio Theory	6
Radio Laboratory	9
TOTAL ...	15

Alternatively, students specialising in Electrical Engineering will study

Subject	Hours per week
Electronics	3
Generation and Transmission of Electrical Energy	6
Distribution and Utilisation of Electrical Energy	6
TOTAL ...	15

This third-year course will commence in September, 1954. The third-year Radio Engineering Course for the Session 1953-54 is:—

Subject	Hours per week
Physics	3
Mathematics	4½
Radio Engineering	6
Electrotechnology	4½
Radio Laboratory	9
TOTAL ...	27

Fees :—£4 per Term. £12 per Session.

8D. Marine Radar Maintenance Certificate Course

A complete Course in basic, technical and practical instruction of twelve weeks' duration will be held in each term.

Enrolments will be accepted during the first week of September, the first week of January and in the first week of the summer term.

The Course is open to:—

- (i) Students of the Radio Officers' Certification Courses who have obtained a Certificate of Proficiency in Radiotelegraphy.
- (ii) Radio Officers employed in the Mercantile Marine Service who wish to obtain the Radar Maintenance Certificate.

The Course will be open to other applicants, accommodation permitting, who possess sufficient qualifications in Electricity and Radio to benefit by the specialised training.

Examinations for the Radar Maintenance Certificate conducted by the Department of Posts and Telegraphs will be held in the Institute at the end of each Course.

Theoretical and practical instruction on an approved Marine Radar installation will be given each weekday, except Saturday, from 10 a.m. to 12.30 p.m., and from 2 p.m. to 4.30 p.m.

The Institute is equipped with a Marconi Radiolocator Mark III.

Fee—£5 per Term.

DAY SCHOOL FOR TRADE APPRENTICES

9D. Full-time Course—Electrical Installation Work and Electrotechnology

This Course is conducted under a special scheme making provision for the full technical training of Electrical Apprentices during the five-year period of Apprenticeship. The scheme has the co-operation of Trade Unions and the Electricity Supply Board.

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.

Under the present Scheme, each stage of full-time instruction occupies a period of 13 weeks and is associated with a further Course of instruction by correspondence carried over an additional period of approximately 35 weeks.

Fee—City Borough Area, Each Course, 30/-.

EXTERNAL AREAS—Student-Apprentices from External Areas are admitted under special fees by arrangement with the Vocational Committees concerned.

Subject	Hours per Week			
	First Year	Second Year	Third Year	Fourth Year
Practical Installation and Cable Jointing	9	9	9	9
Electrical Installation Technology	6	6	6	6
Engineering Science	3	3	3	3
Drawing	3	3	3	3
Mathematics	1½	1½	1½	1½
Workshop Practice	6	6	6	6
Workshop Technology	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
Electrical Calculations	1½	1½	1½	1½
English	1½	1½	1½	1½

10D. Part-time Course—Electrical Installation Work

(For Apprentices, by arrangement with Employers.)

(Session—September to May.)

A part-time Course, conducted over one full day and two or three evenings per week, is arranged to facilitate the technical training of Electrical Apprentices. Day Classes provide instruction in Mathematics, Physics and Electrical Installation Technology. Evening classes are given in Practical Installation, Engineering Science and Electrical Engineering.

FIRST YEAR—DAY CLASSES

Subject	Day	Time	Teacher
Physics	Thursday	9.30-11.00	J. McCormack
Mathematics	Thursday	11.00-12.30	—
Electrical Installation Technology	Thursday	2.00- 5.00	L. Trundle

EVENING CLASSES

Practical Installation	Monday	7.30-10.00	E. McNamara
Electrical Engineering	Wednesday	7.30-10.00	J. Colbert
Engineering Science	Friday	7.30-10.00	—

SECOND YEAR—DAY CLASSES

Subject	Day	Time	Teacher
Electrical Installation Technology	Wednesday	2.00- 5.00	L. Trundle
Mathematics	Friday	2.00- 3.30	—
Physics	Friday	3.30- 5.00	M. Sheehy

EVENING CLASSES

Electrical Engineering	Monday	7.30-10.00	P. J. Byrne } E. Hanly }
Practical Installation	Thursday	7.30-10.00	E. McNamara

Course Fee—30/- per Session.

11D. Part-time Course—Electrical Engineering Technology (Apprentices)

This Course, conducted over two full days and three evenings per week, is arranged to enable electrical apprentices who have attained an honours standard at the end of the previous Electrical Installation Work Course (10D), or who have attained an equivalent standard, to proceed to higher studies in Electrical Engineering Technology. The Course provides instruction in Mathematics, Mechanics, Physics, Principles of Electricity and Applied Heat up to the standard of the Joint Section A syllabus for the Graduateship examination of the Institution of Electrical Engineers (Grad. I.E.E.).

FIRST YEAR—DAY CLASSES

Subject	Day	Time	Teacher
Mathematics	Tue., Thur.	2.00- 3.30	J. McCormack
Applied Mathematics	Tue., Thur.	3.30- 5.00	J. McCormack
Electrotechnology	Wednesday	9.30-12.30	—
Physics	Wednesday	2.00- 5.00	J. McCormack

EVENING CLASSES

Mathematics IV	Monday	7.00-10.00	C. O Cearbhaill
Mechanics II	Thursday	7.30-10.00	C. O Cearbhaill
Electrical Technology	Friday	7.30-10.00	—

SECOND YEAR—DAY CLASSES

Subject	Day	Time	Teacher
Applied Mechanics	Tuesday	9.30-12.30	T. Cronin
Thermodynamics	Tuesday	2.00- 5.00	T. Cronin
Applied Mechanics	Friday	2.00- 5.00	T. Cronin
Principles of Electricity	Saturday	9.30-12.30	T. Cronin

EVENING CLASSES

Mathematics VI	Monday	7.30- 9.30	J. M. Forde
Applied Mechanics	Wednesday	7.30-10.00	P. J. Byrne
Applied Heat and Thermodynamics	Friday	7.30-10.00	T. Cronin

Course Fee—30/- per Session.

12D. Part-time Course—Projection Science and Technology (Cinema Apprentices)

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

The Course extends over three Sessions and provides 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 May in each year.

FIRST YEAR

Subject	Day	Hour	Teacher
General Science	Wednesday	10.30-12.30	P. Gallagher
English and Mathematics	Saturday	10.30-12.30	T. Dowling

SECOND YEAR

Electricity	Tuesday	10.00-11.15	J. Honan
Electricity	Tuesday	11.15-12.30	P. Gallagher
Electricity	Friday	10.00-11.15	J. Honan
Light	Friday	11.15-12.30	P. Gallagher

THIRD YEAR

Electricity	...	...	Tuesday	10.00-11.15	P. Gallagher
Sound Equipment	...	...	Tuesday	11.15-12.30	J. Honan
Light	...	...	Friday	10.00-11.15	P. Gallagher
Sound Equipment	...	...	Friday	11.15-12.30	J. Honan

Fee for each Course, 30/-.

School of Bakery

13D. 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. Ancillary instruction is provided in Bakery Science and Calculations.

Time Table

Day	Time	Subject	Room	Teacher
Monday ...	12.00-3.00	Bakery Practice IA	20	Mr. S. Anthony
	3.30-6.30	do. IIIA	20	
Tuesday ...	12.00-3.00	Bakery Practice IIA	20	Mr. S. Anthony
	3.30-6.30	do. IVA	20	
Wednesday...	12.00-3.00	Bakery Practice IIB	20	Mr. Wm. Franey
	3.30-6.30	do. IVB	20	
Thursday ...	12.00-3.00	Bakery Practice IB	20	Mr. S. Anthony
	3.30-6.30	do. IIIB	20	
Friday ...	12.00-3.00	Bakery Practice IC	20	Mr. S. Anthony
	3.30-6.30	do. ID	20	

Sessional Course Fee, 30/-.

14D. Certificate Course 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 class in ancillary subjects to be taken by bakery students in each year of a Course will be determined in consultation with the Principal.

Fee for such ancillary subjects, 30/- per Session.

15D. 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.

16D. Part-time Course—Laboratory Technicians' Work (Session—September to June)

This Course is designed to provide for the technical training of laboratory attendants and assistants who work in universities, research institutes, industrial firms and schools and is primarily intended for those working in chemical laboratories. The syllabi of the Course are based on the City and Guilds of London Institute syllabi in Laboratory Technicians' Work.

Classes are conducted on two half-days and two evenings per week over a period of three sessions of approximately 34 weeks each session. The subjects of the Course and the number of hours assigned to each subject during the three-year Course are as follows :—

Subject	No. of hours
Mathematics	70½
Drawing	70½
English, Technical Reading, Reports ...	68
Physics (excluding Electricity)	175
Electricity and Electrotechnology	141
Chemistry	141
Specialised Chemical Laboratory Techniques ...	141
Biology	63
Workshop Practice :—	
Metalwork	141
Woodwork	39
Plastics	24
Glassblowing	102
Laboratory Organisation	24
Photography	24
	1,224

The emphasis throughout the Course will be on those practical and applied aspects of each subject which are of interest and value to a laboratory technician.

The time-table for the first year of the Course is:—

Subject	Day	Time
English	Wednesday	2.30- 3.30 p.m.
Physics	Wednesday	3.30- 5.30 p.m.
Workshop Practice (Metalwork and Glassblowing)	Wednesday	7.00-10.00 p.m.
Mathematics	Friday	7.00- 8.30 p.m.
Drawing	Friday	8.30-10.00 p.m.
Chemistry	Saturday	9.30-12.30 a.m.

ENTRANCE STANDARD

Entrants to the course should be at least 16 years of age and have the Primary School Leaving Certificate. *They should, in addition, have had at least one year subsequent whole-time education either in a technical school or secondary school. Applicants who do not possess these educational requirements will be required to attend satisfactorily at a Pre-Specialisation Science Course before they are admitted to this Course.*

Course Fee—30/- per Session.

This Course is approved by the Institute of Chemistry of Ireland, which will accept successful students who have passed the Intermediate Examination of the City and Guilds of London Institute as “non-professional associate members.”

SINGLE SUBJECTS

(Session—September to June.)

Accommodation permitting, classes of established Courses in one or more of the specialised subjects listed hereunder may be taken, if approved by the Principal, on payment of the appropriate fees.

Course No.	Subject	Day	Hour	Fee
S. 1	Pure Mathematics	T. Th. F.	2.0 — 3.30	30/- per Term
S. 2	Applied Mathematics	Tu., Th.	3.30— 5.00	30/- per Term
S. 3	Physics (Lecture and Lab.)	M.W.F.	9.30—12.30	£2 per Term
S. 4	Physics for Engineering (Lecture and Lab.)	M.	11.00—12.30	} £2 per Term
		W.	2.00— 5.00	
		F.	3.30—5.0	
		T. Th. F.	9.30—12.30	
S. 5	Chemistry (Lecture and Lab.)	T. Th. F.	9.30—12.30	£2 per Term
S. 6	Organic Chemistry	M.	2.30— 5.00	30/- per Term
S. 7	Pharmaceutical Chemistry	Tu., Th.	2.00— 5.00	30/- per Term
S. 8	Pharmacy	W.	2.30— 5.30	30/- per Term
S. 9	Biology	W. F.	2.30— 5.00	£2 per Term
S.10	Electrical Technology	W.	9.30—12.30	30/- per Term
S.11	Electrical Installation Technology	T.	11.00—12.30	30/- per Term
S.12	Technical Drawing	F.	9.30—12.30	30/- per Term
S.13	Magnetism and Electricity	As	may be arranged	30/- per Term
S.14	Telegraphy (Morse)	As	may be arranged	30/- per Term
S.15	Workshop Practice	Th.	9.30— 5.00	30/- per Term

EVENING COURSES

PRE-SPECIALISATION COURSES

conducted at

TECHNICAL INSTITUTES, MARINO AND CAPEL STREET
(Science, Mathematics, English and Mechanical Drawing)

Fee, 15/- per Course.

Intending students of Specialised subjects in the Institute of Science and Technology who do not satisfy the Educational Entrance Standard for admission to such Courses are required to attend and complete satisfactorily a Pre-Specialisation Evening Course conducted in the above Institutes.

Satisfactory completion of a Pre-Specialisation Course will be certified; the Pre-Specialisation Evening Course Certificate will admit to enrolment in a Specialised Course in the Institute of Science and Technology in the succeeding Session.

CERTIFICATE AND DIPLOMA COURSES: EXTERNAL EXAMINATIONS

The attention of students is directed to the Examinations 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 British Institution of Radio 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 to the 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 listed hereunder are conducted in relation to the examination requirements of the several authorities named.

COURSE	EXAMINATION SYLLABUSES
Air Navigation 	{ Department of Industry and Commerce (International Civil Aviation Organisa- tion).
Breadmaking and Flour Confectionery 	
Electrical Engineering Practice ...	{ City and Guilds (Lond.), 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.).
Flour Testing	...	... }
Laboratory Technicians' Work (Chemical)	...	...	City and Guilds (Lond.).
Line Telegraphy, Telephony	...	... } {	Department of Education. Institution of Electrical Engineers. City and Guilds (Lond.).
Oils, Fats and Waxes	...	...
Ophthalmic Optics	...	...	Association of Ophthalmic Opticians, Ireland.
Petroleum Products	...	...	City and Guilds (Lond.).
Physics; Chemistry, Mathematics; Botany; Biology;	...	... } {	Department of Education. University of London.
Pharmaceutical Chemistry and Allied Subjects	...	...
Pharmaceutical Chemistry and Allied Subjects	...	...	Pharmaceutical Society of Ireland.
Radio-Communication	...	... } {	Department of Education. City and Guilds (Lond.). Institution of Electrical Engineers B. Inst. of Radio Engineers.
Telecommunications	...	... }
Radio Service Work	...	... } {	City and Guilds (Lond.). Department of Education.
Radio-Telegraphy -Telephony (Marine Radio Officers)	...	...
Radio-Telegraphy -Telephony (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.

EVENING COURSES

DEPARTMENT OF PURE AND APPLIED SCIENCE

ADMISSION OF STUDENTS: In general, students applying for admission to Intermediate Courses must have attained a standard of general education approximating to Matriculation, or have satisfactorily attended at an approved Preliminary Science Course including General Physics, Mechanics and Mathematics.

PURE AND APPLIED PHYSICS

PRELIMINARY STAGES—Fee, 15/- each Course.

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
1K	Magnetism & Electricity, I	Monday	7.30-10.0	12-8b	J. Colbert
2K	Magnetism & Electricity, I	Tuesday ...	7.30-10.0	12-8b	Do.
3K	Magnetism & Electricity, I	Wednesday	7.30-10.0	12-8b	Do.

INTERMEDIATE STAGES—Fee, 15/- per Course.

4K	Mechanics I	Friday ...	7.30-9.30	4	P. Gallagher
5K	Physics I	Thursday ...	7.0-10.0	12-10	M. Sheehy
6K	Physics for Engineering ...	Wednesday	7.0-10.0	16	—
7K	Physics II	Wednesday	7.0-10.0	8a-10	J. Mc Cormack
8K	Magnetism & Electricity, II	Friday ...	7.30-10.0	12-10-8b	J. D. Fitzpatrick
9K	Mechanics II (Applied Maths.)	Thursday ...	7.30-10.0	19	C. O Cearbhaill
10K	Electronics I	Tuesday ...	7.30-9.30	2	T. J. Murphy

ADVANCED STAGES—Fee, 30/- each Course.

11K	Heat & Thermodynamics, III	Friday ...	7.30-10.0	17	T. Cronin
12K	Magnetism & Electricity, III	Tuesday ...	7.30-10.0	5-10-6	T. Cronin, E. V. Cleary
13K	Mechanics (including Strength of Materials) III	Wednesday	7.30-10.0	17	P. J. Byrne
14K	Electronics, II	Thursday ...	7.30-9.30	18	H. de Lacy

15K. ADVANCED PRACTICAL PHYSICS—Fee, 30/- per Term.

This Course provides Laboratory instruction on one evening per week, as may be arranged, suited to the needs of students preparing for the Inter-Science and Degree Examinations of the University of London and for the Examinations of Professional Institutions. The instruction will be carried over the Autumn, Lent and Summer Terms.

PURE AND APPLIED MATHEMATICS

PRELIMINARY STAGES—Fee, 15/- each Course.

16K	Mathematics, IA	Friday ...	7.30-9.30	8a	A. D. Whelan
17K	Do. IB	Tuesday ...	7.30-9.30	17	A. D. Whelan
18K	Do. IIA	Thursday ...	7.30-9.30	8a	A. D. Whelan
19K	Do. IIB	Wednesday	7.30-9.30	5	A. D. Whelan
20K	Do. IIIA	Thursday ...	7.30-9.30	5	P. Gallagher
21K	Do. IIIB	Tuesday ...	7.30-9.30	4	P. Gallagher

INTERMEDIATE STAGES—Fee, 15/- per Course.

22K	Mathematics, IV	Monday ...	7.0-10.0	5	C. O Cearbhaill
23K	Do. V.	Friday ...	7.30-9.30	5	C. O Cearbhaill

EVENING COURSES.

FINAL STAGE—Fee, 30/- per Course.

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
24K	Mathematics, VI	Monday ...	7.30-9.30	17	J. M. Forde
25K	Mathematics VII	Tuesday ...	7.30-10.0	14	do.

TUTORIAL CLASS—Fee, 15/- per Course.

26K	Mathematics (Inter Stages) ...	Thursday ...	7.30-9.30	14	H. C. Clifton
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MATHEMATICAL PHYSICS (MECHANICS)—Fee, 15/- per Course.

27K	Mathematical Physics—I ..	Friday ...	7.30-9.30	4	P. Gallagher
28K	Do. —II ..	Thurs. ...	7.30-10.0	19	C. O. Cearbhall

CERTIFICATION COURSES FOR OPHTHALMIC OPTICIANS— DIPLOMA COURSE IN OPTOMETRY

The Course is organised in conjunction with the examinations of the Association of Ophthalmic Opticians, Ireland. Applicants for admission to the Course must have Matriculation or Leaving Certificate or a certificate of general education of equivalent standard.

Intending students are advised to apply to the Association of Ophthalmic Opticians, Ireland, 11 Harrington Street, Dublin, for full particulars relating to syllabuses, registration and conditions of admission to the professional examinations for the Diploma in Optometry.

The Diploma Examinations are conducted in three parts and the Course is divided into three corresponding parts or years. Students must have completed all the examination requirements for each year of the Course before they are eligible for enrolment in the succeeding year of the Course.

A statement signed by the Principal of the Institute certifying an attendance of at least 75 per cent. for each subject is a condition of entry to any Part of the Diploma Examination.

DIPLOMA COURSE IN OPTOMETRY

Fee: Each Part, £4; Single Subject, £2.

PART I

29K	Physical Optics	Tuesday ..	7.30-8.30	15	F. Nolan
	do. (Lab.)	Tuesday ..	8.30-10.0		do.
	Anatomy and Physiology ..	Wednesday..	7.0-8.0	28	Dr. McNally
	Optical Calculations ..	Wednesday..	8.30-9.30	8a	K. P. Culliton

PART II

30K	Visual Optics	Mon., Thurs.	8.0-10.0	15	K. P. Culliton
	Anatomy and Recognition of Abnormal Conditions ..	Wednesday..	8.0-9.30	28	Miss V. Corcoran Dr. McNally

PART III

31K	Subjective and Objective Sigb: Testing	Wednesday..	7.30-9.30	15	T. S. Mason
	Workshop Practice and Dispensing	Friday ..	7.30-9.30	15	do.

32K. SHORT FULL-TIME SUMMER COURSE IN PARTS I, II AND III

Fee: Each Part, £4; Single Subject, £2.

In order to facilitate registered students who are not resident within the City Borough Area and who are following approved theoretical courses of instruction, short full-time intensive courses are provided, each affording approximately 50 hours of practical instruction in Physical Optics, in Anatomy and Recognition of Abnormal Conditions, and in Practical Sight Testing and Dispensing.

The Course for Part I and that for Parts II and III will be conducted in the month of June in each Session.

The normal regulations in regard to attendance at these Courses will apply.

GLASSBLOWING (in conjunction with Laboratory Technicians' Course) Fee 15/- per Session.

33K	Glass Blowing	Wednesday	7.0-10.0	1	W. G. Brady
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EVENING COURSES

SCHOOL OF APPLIED CHEMISTRY AND BIOLOGY

The Curriculum includes basic Courses in the Chemical and Biological Sciences and, also specialised Courses in Technical Analysis and in the Technology of Manufactures, adapted to the needs of local and national industry and to the training and qualification of industrial technical personnel and of scientific workers generally.

EXTERNAL EXAMINING BODIES. It should be noted that the syllabuses of instruction are based, for the most part, on the requirements of external Examining Bodies and Professional Institutions. A list of these is set forth on page 27 and detailed information in regard to the Examinations of any of the bodies named may be had on application to the Principal.

PURE AND APPLIED CHEMISTRY.

INORGANIC AND ORGANIC CHEMISTRY

INTERMEDIATE COURSES—Fee, 30/- per Course.

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
SECOND YEAR.					
34K	Inorganic Chemistry, Lect. & Lab.	Tu., Th.	7.0-10.0	16	Miss F. Doherty
	Physics—II	We-d. ..	7.0-10.0	8a & 10	J. McCormack

ADVANCED COURSES—Fee, £2 per Course.

THIRD YEAR

35K	Inorganic Chemistry, Lect & Lab	Mon., Tues.	7.0-10.0	22	H. D. Thornton
	Magnetism & Electricity—II ..	Fri. ..	7.30-10.0	12&10	J. D. Fitzpatrick

FOURTH YEAR

36K	Organic Chemistry	Thurs. Fri.	7.0-10.0	25	W. Broderick
	Physics (Optional)	as	may be	arranged	

FIFTH YEAR

37K	Organic Chemistry	Thurs. Fri.	7.0-10.0	25	W. Broderick
	Physics (Optional)	as	may be	arranged	

B.Sc. DEGREE COURSE (UNIVERSITY OF LONDON)

Commencing in September, 1953, a Course on four evenings per week will be provided for students who wish to sit for the University of London B.Sc. degree in Mathematics, Physics and Chemistry.

Students entering this Course must have, as a minimum standard of education, the Intermediate Certificate of the Department of Education (Secondary Branch) or the Manual Training Group Certificate of the Department of Education (Technical Instruction Branch). However, in their own interests all students should have complied with the necessary regulations for registration as external students of the University of London or should arrange to do so as soon as possible.

The Course will extend over five Sessions. In the first two years the syllabi for the Intermediate Examination for the B.Sc. degree in Mathematics, Physics and Chemistry are covered. A further three years is required to complete the syllabi for the degree examination.

Fee—30/- per Course.

FIRST YEAR

No. of Course	Subject	Day	Time	Teacher
38K	Physics	Thursday	7.00-10.00	M. Sheehy
	Chemistry I	Tue., Wed.	7.00-10.00	—
	Mathematics IV	Mon.	7.00-10.00	C. O Cearbhaill

SECOND YEAR (commencing September, 1954)

39K	Physics II	Wednesday	7.00-10.00	J. G. McCormack
	Chemistry II	Tue., Thur.	7.00-10.00	—
	Mathematics V	Friday	7.00-10.00	C. O Cearbhaill

Details of the 3rd, 4th and 5th years of this Course will be published in the Prospectus for 1954-55.

INDUSTRIAL CHEMISTRY.

Specialised Advanced Courses in Technical Analysis.

Fee, £2 per Course.

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
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*** ANALYSIS OF FOOD DRUGS AND WATER**

40K	Technical Analysis	Thurs. & Fri.	7.0 -10.0	22	B. G. Fagan
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***OILS AND FATS.**

41K	Technical Analysis	Thurs. & Fri.	7.0 -10.0	22	B. G. Fagan
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***TESTING OF PETROLEUM PRODUCTS (FUEL OILS AND LUBRICANTS).**

42K	Technical Analysis	Thurs. & Fri.	7.0 -10.0	22	B. G. Fagan
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TECHNOLOGY OF MANUFACTURES.

* Admission to these advanced and specialised Courses is conditional on the applicant satisfying the Principal or appropriate Lecturer of ability to follow the instruction; in general, a student should have passed the Intermediate Stages of the Applied Chemistry Course or hold equivalent or superior qualifications prior to enrolment.

The special attention of students is drawn to the Certificate Course in Industrial Microbiology.

The increased emphasis on quality control in the Food Industries and in legislation applying to these Industries, necessitates special Chemical, Microscopic and Biological Techniques, in which it is becoming imperative on the Industrial Chemist to acquire a fundamental training.

*** INDUSTRIAL MICROBIOLOGY AND ENZYME CHEMISTRY—Fee, £2 per Course. Bacteriology.**

FIRST YEAR

43K	Lecture and Laboratory ...	Mon. or ...	7.0-10.0	23	Dr. M. Kane
	" " ...	Thurs. ...	7.0-10.0	23	Dr. M. Kane

SECOND YEAR.

44K	Lecture and Laboratory ...	Wed. Fri.	7.30-10.0	23	Prof. M. J. Gorman
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FLOUR MILLING TECHNOLOGY.

INTERMEDIATE COURSE—STAGES I and II—Fee, 15/- per Course.

45K	Flour Milling Principles ...	Mon. ...	7.0 -9.30	13	W. de Lacy
	Milling Science ...	Thurs. ...	7.0 -9.30	10	W. de Lacy.

FINAL COURSE—STAGES III and IV—Fee, 30/- per Course.

46K	Milling Technology ...	Wed. ...	7.0 -9.30	24	W. de Lacy
	Cereal Science ...	Mon. ...	7.0 -9.30	28	R. A. D'Arcy

FLOUR TESTING—Fee, 30/- per Course.

47K	Flour Testing	Mon. ...	7.0 -9.30	28	R. A. D'Arcy
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EVENING COURSES

COURSES FOR PHARMACEUTICAL CHEMISTS

48K. CERTIFICATE COURSE (LECTURE AND LABORATORY) IN CHEMISTRY : PHARMACEUTICAL LICENCE EXAMINATION

Course Fee, £4 per Session.
(September to June.)

Note.—The prescribed syllabuses are covered by the Lectures in Two Parts, viz.:

Part I—Forty Lectures: September to February inclusive.

Inorganic Chemistry.

Organic Chemistry (Aliphatic).

Part II—Thirty Lectures: March to June inclusive.

Physical Chemistry.

Organic Chemistry (Aromatic).

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
	Phar. Chemistry Lect.	Mon. & Fri.	7.0 -8.0	25	P. J. Hurley
	" " Lab.	Mon. & Fri.	8.0 -10.0	21	P. J. Hurley

PRACTICE COURSES IN PHARMACEUTICAL AND MEDICAL CHEMISTRY.

Fee, 30/- per Term.

(September to January; January to March; April to June.)

49K	Chemical Laboratory ..	Wed. & Thurs.	7.0-10.0	21-16	P. J. Hurley Miss F. Doherty
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Afternoon Classes may be arranged in respect of Practice Courses.

* BOTANY—Fee, 15/- per Course.

(September to June).

50K	Botany ..	Tues. or Thurs.	8.0-10.0	24	P. T. Carroll
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* MATERIA MEDICA—Fee, 15/- per Course.

(September to June).

51K	Materia Medica ..	Tues. or Thurs.	7.0-8.0	23	R. Godley
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* Courses recognised by the Pharmaceutical Society of Ireland.

PRACTICAL PHARMACY—Fee, 30/- per Course.

(September to January; January to March; April to June).

52K	Lecture and Practical ..	Mon., Tues. Thurs., Fri.	7.0-9.30	24	F. J. Barragry
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DEPARTMENT OF ELECTRICAL ENGINEERING

The Curriculum in this section includes: (i) a Course for Trade Apprentices in Electrical Installation Work which is associated with the Department of Education Trade Certificate Examination syllabuses for this subject; (ii) a Higher Course for Journeymen and Foremen in Electrical Installation Technology associated with the syllabuses of the Course C, City and Guilds (Lond.); (iii) an Advanced Course in Electrical Engineering Practice associated with the examination syllabuses of the Department of Education, the City and Guilds of London Institute and the Institution of Electrical Engineers; (iv) a Course for women students in Drawing Office Tracing; (v) Courses for Joint Section A and Section B of the Graduateship Examination of the Institution of Electrical Engineers.

ADMISSION OF STUDENTS. The Courses in Electrical Installation Work are reserved to Trade Apprentices and Journeymen who satisfy the entrance educational standard.

Intending students of Technological Courses must not be less than sixteen years of age and shall be required to show evidence of ability to profit by the instruction before being admitted to any stage of a Course.

ELECTROTECHNOLOGY—ELECTRICAL ENGINEERING PRACTICE

PRELIMINARY COURSES—Fee, 15/- per Course.

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
FIRST YEAR.					
53K	Electrical Engineering—I. ..	Monday ..	7.30-10.0	12, 8b	J. Colbert
	Mathematics—IA.	Fri. ..	7.30-9.30	8a	A. D. Whelan
	Drawing—I.	Wed. ..	7.30-9.30	14	J. G. Moore

INTERMEDIATE COURSES—Fee, 15/- per Course.

DIRECT CURRENT AND MACHINES

GRADE I

54K	Electrical Engineering—II. ..	Mon. ..	7.30-10.0	4-6	E. Hanly; P. J. Byrne; E. V. Cleary; T. Cronin
	Mathematics—II.	Wed. or Thurs	7.30-9.30	5 or 8a	A. D. Whelan.
	Technical Drawing—II. ..	Wed. or Fri.	7.30-9.30	14	J. G. Moore

GRADE II

55K	Electrical Engineering—III. ..	Wed. ..	7.30-10.0	4-6	G. Ring, W. Fegan.
	Applied Mechanics—I.	Fri. ..	7.30-9.30	4	P. Gallagher
	Mathematics III.	Tue. or Thur.	7.30-9.30	4 or 5	P. Gallagher

ALTERNATE CURRENT AND MACHINES

GRADE I.

56K	Electrical Engineering—IV. ..	Tues. ..	7.30-10.0	4-6	G. Ring
	Mathematics—IV.	Mon. ..	7.30-10.0	5	C. O'Ceirbhall
	Applied Mechanics—II. ..	Thurs. ..	7.30-10.0	19	C. O'Ceirbhall

GRADE II.

57K	Electrical Engineering—V. ..	Thurs., Fri.	7.30-10.0	4-6	G. Ring
	Mathematics—VI.	Monday ..	7.30-9.30	5	J. M. Forde
	Mechanics—III.	Wed. ..	7.30-10.0	17	P. J. Byrne

EVENING COURSES

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
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FINAL COURSES—Fee, 30/ per Course.

ELECTRICAL ENGINEERING PRACTICE

GRADE III.

58K	Generation and Transmission	Mon.	.. 7.30-9.30	14	Dr. H. N. Wroe
	or	Tues.	.. 7.30-9.30	2	Dr. H. N. Wroe
	Distribution and Utilisation of Electrical Energy ..	Friday	.. 7.30 9.30	5	C. O'Ceirbhaill
	Mathematics V (or higher stage)	Friday	.. 7.30-9.30	2	E. V. Cleary
	Electrical Technology	Thurs.	.. 7.30-9.30	13	H. de Lacy

GRADUATESHIP OF THE INSTITUTION OF ELECTRICAL ENGINEERS AND CERTIFICATE COURSE FOR THE DEPT. OF EDUCATION AND THE CITY AND GUILDS OF LONDON INSTITUTE EXAMINATIONS IN ELECTRICAL ENGINEERING

The syllabi of this Course are designed to meet the requirements of evening students who wish to qualify as Graduates of the Institute of Electrical Engineers.

Students who enrol for the Graduate Course are advised to seek registration as Student Members and to obtain a copy of the Examination Regulations of the I.E.E. Extracts from the Bye-Laws of the I.E.E., given under appendix I in these regulations, indicate how a student may qualify for election to the class of Associate Member (A.M.I.E.E.).

Students who wish to sit for the City and Guilds of London Institute Examinations may enrol in the appropriate year of the Course.

QUALIFICATIONS OF ENTRANTS

In all cases intending students will be required to show evidence of a standard of education which, in the opinion of the School Authority, will permit them to follow the course of instruction satisfactorily.

COURSE FOR THE COMMON PRELIMINARY EXAMINATION OF THE ENGINEERING JOINT EXAMINATION BOARD

Fee—20/-.

FIRST YEAR

59K	Mathematics III	Tuesday	7.30- 9.30	P. Gallagher
	Physics	Wednesday	7.00-10.00	—
	English	Thursday	7.30- 9.30	T. A. G. Dowling
	Mechanics I	Friday	7.30- 9.30	P. Gallagher

JOINT SECTION A (2 YEARS). Fee—30/- per Session.

SECOND YEAR

60K	Mathematics IV	Monday	7.00-10.00	C. O Ceirbhaill
	Electrical Engineering III	Wednesday	7.30-10.00	G. K. Ring } W. Fegan }
	Mechanics II	Thursday	7.30-10.00	C. O Ceirbhaill
	Physics	Friday	7.00-10.00	J. McCormack

At the end of this year students are eligible to sit for the Intermediate Examination in Electrical Engineering D.C. of the Department of Education and the City and Guilds of London Institute.

THIRD YEAR

61K	Mathematics VI	Monday	7.30- 9.30	J. M. Forde
	Principles of Electricity	Tuesday	7.30-10.00	T. Cronin
	Mechanics III	Wednesday	7.30-10.00	P. J. Byrne
	Applied Heat	Friday	7.30-10.00	T. Cronin

EVENING COURSES.

SECTION B (2 YEARS). Fee—30/- per Session.

FOURTH YEAR

No. of Course	Subject	Day	Time	Teacher
62K	Electrical Engineering IV ...	Tuesday	7.30-10.00	G. K. Ring
	Electronics	Thursday	7.30- 9.30	H. De Lacy
	Electrical Engineering Technology	Friday	7.30- 9.30	E. V. Cleary

At the end of this year students are eligible to sit for the Intermediate Examination in Electrical Engineering A.C. of the Department of Education and the City and Guilds of London Institute. They may also sit for the Advanced Electrical Engineering Practice, Section A, Department of Education, and Final Electrical Engineering Practice, Part I, of the City and Guilds of London Institute.

FIFTH YEAR

63K	Generation and Transmission	Monday	7.30- 9.30	Dr. H. N. Wroe
	or			
	Distribution and Utilisation of	Tuesday	7.30- 9.30	Dr. H. N. Wroe
	Electrical Energy			
	Electrical Engineering V ...	Thur., Fri.	7.30-10.00	G. K. Ring

At the end of this year students can also sit for Advanced Electrical Engineering Practice, Section B, Department of Education, and Final Electrical Engineering Practice, Part II, of the City and Guilds of London Institute.

* COURSE IN DRAWING OFFICE TRACING (Women).

Fee, £2 per Course.

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
64K	Drawing Office Tracing ...	Wed. Fri. ...	7.30-10.0	14	J. Williams

* Entrance Standard of Education: Intermediate or Leaving Certificate or Equivalent.

ELECTRICAL FITTING AND MAINTENANCE WORK.

Associated Courses in Practical Subjects.

Fee, 15/- per Course.

CABLE JOINTING.

65K	Cable Jointing—I	Tues. ...	7.30 10.0	33	N. Connolly
66K	Cable Jointing—II	Thurs. ...	7.30-10.0	33	N. Connolly

WORKSHOP PRACTICE

67K	Workshop Practice	Tues. ...	7.30-10.0	1	J. Foley
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EVENING COURSES.

COURSES FOR TRADE APPRENTICES

ELECTRICAL INSTALLATION WORK.

Fee, 15/- per Course.

Junior Trade Certificate Course. (Department of Education).

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
FIRST YEAR					
68K	Practical Installation—I	Mon. ...	7.30-10.0	33	I. Tighe
	Electrical Engineering—I	Tues. ...	7.30-10.0	12-8B	J. Colbert
	Engineering Science—I	Thurs. ...	7.30-10.0		—
69K	Practical Installation—I	Fri. ...	7.30-10.0	33	I. Tighe
	Electrical Engineering— I	Wed. ...	7.30-10.0	12-8B	J. Colbert
	Engineering Science—I	Mon. ...	7.30 10.0		—
70K	Practical Installation—I	Wed. ...	7.30-10.0	33	I. Tighe
	Electrical Engineering—I	Mon. ...	7.30 10.0	12-8B	J. Colbert
	Engineering Science—I	Tues. ...	7.30-10.0		—

SECOND YEAR

71K	Practical Installation—II	Thurs. or Wed.	7.30-10.0	33	E. J. McNamara
	Electrical Engineering—II	Mon. ...	7.30-10.0	6	E. J. Hanly; P. J. Byrne
	Electrical Installation—II, Lec. ...	Tues. ...	8.30-9.30	12	W. Trundle
	Trade Calculations—II	Tues. ...	9.30-10.0	12	W. Trundle

Senior Trade Certificate Course. (Department of Education). and Course "B", City and Guilds of London Institute.

THIRD YEAR

72K	Practical Installation—III	Wed. ...	7.30-10.0	33	E. J. McNamara
	Electrical Engineering (D.C. & A.C.) ...	Thurs. ...	7.30-10.0	6	L. Trundle
	Technical Drawing	Fri. ...	7.30-9.30	14	J. G. Moore

Course C, City and Guilds of London Institute

FINAL STAGE—Fee, 30/- per Course.

FOURTH YEAR

73K	Electrical Engineering—III	Wed. ...	7.30-10.0	4, 6	G. Ring; W. Fegan
	Electrical Engineering—IV	Tues. ...	7.30-10.0	4, 6	G. Ring
	Mathematics—III	Thurs. ...	7.3-9.30	5	P. Gallagher

DEPARTMENT OF RADIO TECHNOLOGY AND TELECOMMUNICATIONS

The Courses offered in this section of the Evening School Curriculum fully cover the requirements of all external Examining Bodies associated with this branch of Engineering Technology, including the Institution of Electrical Engineers, the British Institution of Radio Engineering, the City and Guilds of London Institute, the Department of Posts and Telegraphs and the Department of Education.

TELECOMMUNICATIONS (LINE) ENGINEERING

POST OFFICE ENGINEERING

PRELIMINARY COURSES—Fee, 15/- per Course.

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
74K	Post Office Engineering (Lect) ..	Mon. ..	7.30-9.30	19	J. Devon
	Instrument and Wiring (Pr.) ..	Thurs. ..	7.30-9.30	1	W. Madigan

TECHNICAL TELEGRAPHY

INTERMEDIATE COURSES—Fee, 15/- per Course.

FIRST YEAR

75K	Technical Telegraphy—I. ..	Thurs. ..	7.30-9.30	17	T. P. Sheridan
	Magnetism and Electricity—II ..	Fri. ..	7.30-10.0	12,10,8	B. J. Dixon

SECOND YEAR

76K	Technical Telegraphy—II. ..	Tuesday ...	7.30-9.30	19	T. P. Sheridan
	Mathematics—III	Thursday ...	7.30-9.30	5	P. Gallagher

TECHNICAL TELEPHONY

INTERMEDIATE COURSES—Fee, 15/- per Course.

FIRST YEAR

77K	Technical Telephony—I. ..	Wed. ..	7.30-9.30	4	J. McDonagh
	Magnetism and Electricity—II	Fri. ..	7.30 10.0	12,10,8	B. J. Dixon

SECOND YEAR

78K	Technical Telephony—IIA ...	Wed. ...	7.30-9.30	19	J. W. Devon
	Mathematics—III ...	Thurs. ...	7.30-9.30	5	P. Gallagher

FINAL COURSE—Fee, 30/- per Course.

THIRD YEAR

79K	Tech. Telephony—IIb ...	Fri. ...	7.30-9.30	19	J. W. Devon
	Mathematics—IV ...	Mon. ...	7.30-10.0	5	C. O'Ceirbhaill

or

80K	Transmission and Lines ..	Mon. .	7.30-9.30	2	A. J. Litton
	Magnetism and Electricity—III ...	Tues. ...	7.30-10.0	5-10	T. Cronin E. V. Cleary

EVENING COURSES

TESTING, MAINTENANCE AND SERVICING OF RADIO EQUIPMENT.

(CERTIFICATES OF THE DEPARTMENT OF EDUCATION AND THE CITY AND
GUILDS OF LONDON INSTITUTE)

PRELIMINARY COURSE—Fee, 15/- per Course.

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
81K	Electrical Engineering—I ..	Mon. ...	7.30-10.0	12-10-8	J. Colbert
	Mathematics I (or higher stage)	Friday ...	7.30-9.30	8a	A. D. Whelan
	Workshop Practice	Tues. ..	7.30-10.0	1	J. Foley

INTERMEDIATE COURSE—Fee, 15/- per Course.

FIRST YEAR

82K	Radio Service—I	Tues. ...	7.30-10.0	9	—
	Electrical Engineering—II ..	Mon. ..	7.30-10.0	4	E. Hanly
	Mathematics—II	Thursday ..	7.30-9.30	8a	A. D. Whelan

FINAL COURSES—Fee, 30/- per Course.

SECOND YEAR

83K	Radio Service—II.	Wed. ..	7.30-10.0	9	—
	Alternating Current I	Tues. ..	7.30-10.0	4-6	G. K. Ring
	Mathematics—III	Thurs. ..	7.30-9.30	5	P. Gallagher

THIRD YEAR

84K	Radio Service—III	Thurs. ..	7.30-10.0	9	—
	Electronics—I	Tues. ..	7.30-9.30	2	T. J. Murphy

TELECOMMUNICATIONS ENGINEERING (RADIO)

COURSE FOR THE INTERMEDIATE CERTIFICATE IN
TELECOMMUNICATIONS ENGINEERING (CITY AND
GUILDS OF LONDON INSTITUTE).

Fee, 15/- per Course.

FIRST YEAR

85K	Telecommunications (Principles) I	Friday	7.30-10.0	12-10-8	J. Fitzpatrick
	Telecommunications Practice	Monday	7.30-9.30	11	C. McCabe
	Mathematics, III	Thursday	7.30-9.30	5	P. Gallagher

SECOND YEAR

86K	Telecommunications (Principles) II	Tuesday	7.30-10.0	5-10-6	E. V. Cleary; T. Cronin
	Radio, I	Wednesday	7.30-9.30	11	T. J. Kelly
	Mathematics IV	Monday	7.30-10.0	5	C. O Cearbhaill

EVENING COURSES

COURSE FOR THE FINAL CERTIFICATE IN TELECOMMUNICATIONS ENGINEERING (CITY AND GUILDS).

Fee, 30/- per Course.

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
THIRD YEAR					
87K	Telecommunications (Principles) III	Wednesday	7.30—10.0	13	H. de Lacy
	Radio, II	Monday	7.30—10.0	13	J. J. Woods
	Mathematics, V	Friday	7.30—9.30	5	C. O Cearbhaill
FOURTH YEAR					
88K	Telecommunications (Principles) IV	Wednesday	7.30—10.0	13	H. de Lacy
	Radio, III	Friday	7.30—10.0	13	H. de Lacy
	Mathematics, VI	Monday	7.30—9.30	17	J. M. Forde

TELECOMMUNICATIONS ENGINEERING (RADIO)

BRITISH INSTITUTION OF RADIO ENGINEERS.

COURSE FOR GRADUATESHIP EXAMINATIONS.

PART I—Fee, 30/- per Course.

FIRST YEAR					
89K	Magnetism and Electricity II	Friday	7.30—10.0	12-10-8	J. D. Fitzpatrick
	Physics—I	Thursday	7.30—10.0	12 10	M. Sheehy
	Mathematics (Optional)	As arranged			
SECOND YEAR					
90K	Magnetism and Electricity, III	Tuesday	7.30—10.0	5-10	E. V. Cleary
	Physics—II	Wednesday	7.30—10.0	8-10	J. McCormack

PART II—Fee, 30/- per Course.

THIRD YEAR					
91K	Radio, I	Wednesday	7.30—9.30	11	T. J. Kelly
	Mathematics, IV	Monday	7.0—10.0	5	C. O Cearbhaill
	Electronics, II	Thurs. ..	7.30—9.30	13	H. de Lacy

PART III—Fee, 30/- per Course.

FOURTH YEAR					
92K	Radio, II	Monday	7.30—10.0	13	J. J. Woods
	Telecommunications, III	Wednesday	7.30—10.0	13	H. de Lacy
	Mathematics, V (Optional)	Friday	7.30—9.30	5	C. O Cearbhaill
FIFTH YEAR					
93K	Radio, III	Friday	7.30—10.0	13	H. de Lacy
	Telecommunications, IV	Wednesday	7.30—10.0	13	H. de Lacy
	Mathematics, VI (Optional)	Monday	7.30—9.30	17	J. M. Forde

EVENING COURSES.

TELECOMMUNICATIONS ENGINEERING

INSTITUTION OF ELECTRICAL ENGINEERS.

ASSOCIATE MEMBERSHIP COURSE

Courses for the Common Preliminary and Joint Section "A" Examinations are detailed on page 39.

SECTION B—Fee, 30/-.

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
94K	Radio Communications ...	Wednesday	7.30—10.0	13	H. de Lacy
		Friday	7.30—10.0	13	H. de Lacy
	or Line Communications ...	Monday	7.30—9.30	2	A. J. Litton
		Friday	7.30—9.30	19	J. W. Devon

Advanced students applying for admission to the above Courses should consult the Principal or Lecturer in regard to Regulations for Joint Section A and Section B of the Associate Membership Examination of the Institution of Electrical Engineers, and to the educational qualifications at present accepted by the Institution for the granting of exemption from portions of the examination.

95K. COURSES FOR THE CERTIFICATION (FIRST AND SECOND CLASS) OF RADIO OFFICERS FOR THE MERCANTILE MARINE AND AIR SERVICES

Examinations conducted by the Department of Posts and Telegraphs in December and June each Session.

TIME TABLE (September to June.)

SUBJECT	Year	Day	Hour	Room
Magnetism and Electricity	I	Friday ...	7.30-10.0	12-10
Alternating Current—Summer Term	I	Friday ...	7.30-10.0	12
Electrical Machines—Summer Term	I	Monday ...	7.30-10.0	6
Morse Code Practice	I	Mon. Tues.		
		Wed., Thurs.	7.30-10.0	8c
Radio Theory	II	Thursday ...	7.30-9.30	11
Practical Radio	II	Tuesday ... *	7.30-9.30	11
Morse Code Practice and Operating Procedure	II	Mon. Wed.	7.30-10.0	8c
	II	Friday ...	7.30-9.0	8c
International Regulations	II	Friday ...	9.0 -10.0	8c

Course Fee, £5 per Session.

For additional information see pages 21 and 22 (Day Courses).

RADIOTECHNOLOGY—Course Fee, £3 per Session.

(September to June.)

96K	Radio Theory (Radio Officers)	Thursday	7.30-9.30	11	T. Kelly
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RADIO TECHNOLOGY—Course Fee, £3 per Session.

(September to June)

97K	Practical Radio (Marine Radio Equipment)	Tuesday	7.30-9.30	11	J. Honan
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MORSE CODE PRACTICE—Fee, 30/- per Session.

(September to June.)

98K	Telegraphy Practice	Tues., Thurs.	7.30-10.0	8c	J. Blennerhassett
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ELECTRICAL TECHNOLOGY; ALTERNATING CURRENT AND ELECTRICAL MACHINES (RADIO OFFICERS)

Summer Term—30/-.

99K	Alternating Current Theory ...	Friday ...	7.30-10.0	12-10	T. Cronin
	Electrical Machines	Monday ...	7.30-10.0	6	G. K. Ring

* RADAR MAINTENANCE CERTIFICATE COURSE

(October to June.) Fee, £5.

100K	Radar Technology, Lect. & Lab.	Mon., Wed. Fri.	7.30-10.0	27	
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* For additional information see page 24 (Day Courses).

EVENING COURSES

Air Navigation — Civil Aviation

Instructor-in-Charge:—CAPT. B. FLANAGAN

Courses in AIR NAVIGATION subjects in preparation for the State Examinations for Pilot's and Navigator's Licences.

The Courses offer facilities for specialised instruction based on the Syllabuses for the examinations conducted by the Department of Industry and Commerce.

Applicants for admission to the Course for the Senior Commercial Pilot's Licence must have attained proficiency in Plane Trigonometry up to the general solution of triangles and in the use of six-figure logarithms; applicants for admission to the Course for the Flight Navigator's Licence must have acquired, in addition, an elementary knowledge of spherical trigonometry.

Suitable tutorial classes in Mathematics, including elements of Vector Algebra, Plane and Spherical Trigonometry are ordinarily available.

The Examination Syllabuses are those approved by the International Civil Aviation Organisation (I.C.A.O.); these are subject to revision and amendment from time to time.

The Courses are conducted on three evenings per week during the session.

NOTE re GRANT OF LICENCES

The granting of Licences to successful examinees is contingent on submitting acceptable evidence of actual flying experience to the minimum extent laid down in Statutory Instrument No. 33 of Air Navigation (Personnel Licensing) Order, 1951.

The Course for Aircraft Despatchers follows as a minimum the syllabus of the Civil Aeronautics Administration (C.A.A.), Washington. The Course is conducted on three evenings per week during one session.

Subject	Teacher
Flight Navigation	} Capt. B. Flanagan
Flight Operations	
Form of the Earth, Maps and Charts ...	
Earth's Magnetism and Compasses ...	
Astronomical Navigation	F. E. Dixon
Meteorology	P. J. Flanagan
Air Traffic Control	} D. Doyle
Communications	
Radio Aids to Navigation	L. O'Donoghue
Aircraft Instruments	P. I. Taylor
Aircraft (Airframes, Engines, etc.) ...	M. J. O'Rorke
Signalling and Morse	A. W. Patterson
Link Trainer	

No.	Course	Course Fee
101K.	Commercial Pilot's Licence ...	£6 per Session
102K.	Senior Commercial Pilot's Licence	£8 per Session
103K.	Flight Navigator's Licence ...	£12 per Session
104K.	Aircraft Dispatcher's Licence ...	£10 per Session
105K.	Flight Operations and Meteorology for Airline Transport Pilot's Licence	£3 for course of one term
106K.	Technical Examination for Instrument Rating	£2 for course of one term

CIVIL AIRPORT CONTROL OFFICERS

The examination for Civil Airport Control Officers is similar in standard to the Senior Commercial Pilot's Licence examination.

EVENING COURSES

School of Bakery

EVENING COURSE IN BAKERY PRACTICE—BREADMAKING

(Journeyman).

Course Fee, 15/- per Session.

No. of Course	Subject	Day	Hour	Room	Teacher
107K	Bakery Practice ...	Wednesday	7.30—10.0	20	S. Anthony

EVENING COURSES IN CONFECTIONERY DECORATION

PRELIMINARY COURSE (3rd and 4th Year APPRENTICES):

Course Fee, 30/- per Session.

108K	Design, Icing, Piping ...	Monday	7.30—10.0	20	W. Clarke S. Anthony
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INTERMEDIATE COURSE (JOURNEYMEN):

Course Fee, 30/- per Session.

109K	Design, Icing, Piping ...	Tuesday	7.30—10.0	20	W. Clarke
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ADVANCED COURSE (JOURNEYMEN):

Course Fee, 30/- per Session.

110K	Design, Icing, Piping ...	Thursday	7.30—10.0	20	W. Clarke
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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.

EVENING COURSES AND TIME TABLE

Course Fee, 15/- per Session.

HANDICRAFT.

111K	Boot and Shoe Making—I.	Mon., Wed.	7.30—9.30	3	K. English & T. English
112K	Boot and Shoe Making—II.	Mon., Wed.	7.30—9.30	3	K. English & T. English
113K	Boot and Shoe Making—III.	Tue., Thu.	7.30—9.30	3	K. English & C. Cronin

IRISH LANGUAGE: GENERAL COURSES

Registered students may take Irish as an additional subject on payment of a fee of 5/-. 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.

SCHOLARSHIPS AND PRIZES

SCHOLARSHIPS TO THE SENIOR SCIENCE COURSE

The City of Dublin Vocational Education Committee offers 16 scholarships to the Senior Science Course, each valued £20 per annum and tenable for two years, to boys between the ages of 15 and 17 years on the 1st January preceding. Ten of these scholarships will be confined to students who have obtained the Manual Training Group Certificate (Department of Education, Technical Instruction Branch) by attendance at a Technical Institute or School under the jurisdiction of the Committee. The other six scholarships are open for competition by secondary school students between the ages of 15 and 17 years on the 1st January preceding who possess an Intermediate Certificate (Department of Education, Secondary Branch) and have resided in the City of Dublin for the preceding three years. The scholarships shall be awarded on the basis of a written examination and interview as described hereunder. The Committee reserves the right to refuse to award scholarships in either of these two groups if the standard of applicants is not sufficiently high. It also reserves the right to increase or decrease the number of scholarships in each group.

The examination will be held during the first week in July each year. Applicants in the confined group (i.e. Technical School students) will be required to answer papers in the compulsory subjects, Irish (100 marks), English (100 marks) and Mathematics (200 marks) and in one of the optional subjects, Mechanics and Heat, Magnetism and Electricity, Mechanical Drawing, Woodwork or Metalwork (200 marks each).

All these examination papers will be based on the Department of Education (Technical Instruction Branch) syllabus for the Manual Training Group Certificate.

Applicants in the open competition (i.e. secondary school students) will be required to answer papers in the compulsory subjects, Irish (100 marks), English (100 marks) and Mathematics (200 marks) and in either General Science (200 marks) or an additional paper in Mathematics, Intermediate Certificate Honours standard (200 marks). These examination papers will be based on the Department of Education (Secondary Branch) Intermediate Certificate syllabus. Candidates selected on the basis of the results of these examinations will be called for interview during the second week in July.

THE FOY SCHOLARSHIP IN APPLIED CHEMISTRY

A former student of the Institute, Mr. W. P. Armstrong, has established a Scholarship in Chemistry to be called the "Foy Scholarship". The annual value of the Scholarship is about £14, being the proceeds of an investment of £500 in Dublin Corporation Stock.

The Scholarship is awarded each Session on the result of an Examination in Chemistry, usually held in May. All students who have attended regularly during two Sessions in the Chemistry Department are eligible to compete, and the student to whom the Scholarship is awarded must pursue his studies in the Chemistry Department during the following Session.

W.D.A. TRAINEE SCHOLARSHIP IN RADIO SERVICE WORK

The Wireless Dealers' Association has instituted a scholarship award, to be competed for in each Session by students completing the Day Course in Radio Service Work. The value of the Scholarship is £50. The Holder is required to spend a total period of 16-18 weeks in the Service Departments of Irish Radio Firms and Manufacturers, during which period the Holder will receive payment in three instalments of the Scholarship Grant.

The co-operating firms are:—Pye (Ireland) Ltd.; Philips (Ireland) Ltd.; and Electric and Musical Industries (Ireland) Ltd.

IRISH PROFICIENCY SCHOLARSHIPS

IRISH PROFICIENCY SCHOLARSHIPS entitle the holders to free entry to Day Junior Technical Course in Electrotechnology and Science and to an annual payment of £3 to cover the cost of books and equipment. The Scholarships are awarded on the results of an oral examination in Irish. Candidates are first required to pass qualifying examinations in Irish, Mathematics, and English. These examinations are held in the month of June.

GAEDHEALTACHT SCHOLARSHIPS

GAEDHEALTACHT SCHOLARSHIPS, entitling the holders to a Summer Course in the Gaeltacht, free of all expense. These Scholarships are open to competition amongst the students of the Whole-time Day Courses.

DAY APPRENTICE SCHOLARSHIPS IN BOOTMAKING

DAY APPRENTICE SCHOLARSHIPS IN BOOTMAKING, entitling the holders to free training for two years in Whole-time Day Apprentice Course, together with payment of 12/- per week during the first year and 16/- per week during the second year of the Course. On the completion of the Course, students are accepted as third-year apprentices to the trade. Particulars are published in the Dublin daily press in the month of March.

THE DUBLIN MECHANICS' INSTITUTE SCHOLARSHIPS

The Residuary Fund of the Dublin Mechanics' Institute has been made available for Industrial Scholarships under the management of the Vocational Education Committee.

One Scholarship will be awarded annually in the Electrical Engineering and Physics Group. The Scholarship is tenable for three years, and its value is about £3 per year.

Candidates must be engaged in an Operative Trade as Apprentices or Learners. They must be between the ages of 16 and 19, and must have attended a Technical Course during the preceding School Session and made 80 per cent. of the possible attendances in two of the subjects of the Course in which they are entered.

DEPARTMENT OF EDUCATION (TECHNICAL INSTRUCTION BRANCH)

The Department of Education offers from time to time Scholarships in certain selected Trades to apprentices who have completed the second year of apprenticeship. These Scholarships are announced in the public press.

BREADMAKING AND FLOUR CONFECTIONERY

Annual awards are made by the Irish Bakers', Confectioners' and Allied Workers' Union of a Silver Medal and a Bronze Medal to each of the classes of the Course for Bakery Apprentices, viz., First, Second, Third and Fourth Year Classes in respect of First and Second Places in the Sessional Examinations held in the month of June in each Session.

FLOUR MILLING TECHNOLOGY

The Irish Flour Millers' Association offers, annually, prizes to the value of £37 10s. for award to students attending the Courses who have attained successes in the Department of Education Examinations.

LABORATORY TECHNICIANS' WORK

The Institute of Chemistry of Ireland offers prizes of three guineas to students who obtain 1st Place at the 1st and 2nd Year Sessional Examinations, and a prize of four guineas to the student who obtains 1st Place at the 3rd Year Sessional Examinations, respectively, of the Laboratory Technicians' Course.

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