Prospectus: Kevin Street

1961

Prospectus Day and Evening Courses: Session 1961-62

City of Dublin Vocational Education Committee

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COLLEGE
OF
TECHNOLOGY
Kevin Street, Dublin

PROSPECTUS
Day and Evening Courses

SESSION
1961-62
CALENDAR—SESSION 1961-62

1961—SEPT. 4 Monday - Whole-time and Part-time Day Courses open for enrolment. Entrance Examinations for these Courses will be held during the week. Day Apprentice Classes commence work.

11 Monday - Whole-time and Part-time Day Classes commence work. Evening Courses open for enrolment and Entrance Examinations for these will be held during the week.

18 Monday - Evening Classes commence work.

OCT. 18 Wednesday - Solemn Votive Mass to mark the opening of the academic year in the City of Dublin Technical Colleges and Schools. Day Classes closed.

DEC. 20 Wednesday - Final Class Meetings of Day and Evening Courses before Christmas vacation.

1952—JAN. 8 Monday - Day and Evening Classes resume work after Christmas vacation.

15 Monday - Mid-session Examinations will be held for all Evening Classes during this week, except where otherwise arranged.

APR. 17 Tuesday - Final Class Meetings of Day and Evening Courses before Easter vacation. Final Meetings of Evening Classes, except Examination Classes, or where otherwise arranged.

30 Monday - Classes resume work after Easter vacation.

JUNE 29 Friday - Summer Term closes, except where otherwise arranged.

On Wednesday, November 1st, All Saints’ Day; Friday, December 8th, Feast of the Immaculate Conception; Thursday, May 31st, Ascension Day, and Thursday, June 21st, Feast of Corpus Christi, all Day Classes closed. Evening Classes will be held as usual on these days.

The College is closed on all Bank Holidays.
SPECIAL NOTICE

The attention of all students, parents and employers is directed to the fact that as from the 1st September, 1961, no classes will be held in the College on Saturdays. Day Classes will normally be held from 9 p.m. to 12.30 p.m. and 2 p.m. to 5 p.m. each week-day except Saturday, unless special arrangements are made in specific cases.

Senior Students’ Union Subscription: Students enrolling in the Whole-time Courses, Radio Service Work (W.R.S.), Radio Officers (W.R.O.), Pre-University (W.S.U.), Senior Science (W.S.S.), Intermediate B.Sc. (W.S.I.), Opticians (W.S.O.) and Electrical Engineering (S.E.E.), are required to pay a Senior Students’ Union fee of 10/- on enrolment. The fee is paid into the funds of the Union and is used by the Union to finance extra-curricular student activities.

Office Hours: 9.30 a.m. to 1 p.m. and 2.30 p.m. to 5 p.m., Monday to Friday, and 9.30 a.m. to 1 p.m. on Saturdays.

ADVISORY COMMITTEES

THE PRINCIPAL and STAFF TEACHERS acting in collaboration with:

AIR NAVIGATION

R. W. O’SULLIVAN and CAPT. L. SINNOTT, Department of Transport and Power, Civil Aviation Section.

CAPT. T. P. McKEOWN, Aer Lingus, Dublin Airport.

CAPT. J. C. DEVOW, Trans-World Airlines, Inc.

CAPT. B. FLANAGAN, Chief Instructor, Air Navigation Courses.

M. J. O’FLANAGAN, B.E., Chief Inspector, Department of Education.

BAKERY

Irish Bakers’, Confectioners’ and Allied Workers Union: J. SWIFT (Chairman), T. HARMON, J. KANE, J. FARNON, T. GOULDING and R. WALSH.

Dublin Master Bakers’ Committee: J. V. DOWNES, L. KENNEDY and G. RORKE.

Guild of Irish Bakers: BRIAN KENNEDY and P. J. MACMAHON.

Confectionery Trade Branch, F.U.E.: W. H. LONG.
CINEMA AND THEATRE (PROJECTION)

Theatre and Cinema Association (Ireland): J. BRENNAN, P. CLARKE, P. J. NOLAN, M. SCANLAN.
Cinema Branch, I.T.G.W.U.: S. KELLY, R. CRAWFORD, and F. O'TOOLE.
Co-opted: F. ROBBINS.

ELECTRICAL ENGINEERING

P. H. GREER, M.I.E.E., Unldare Ltd.
J. A. McCONNELL, M.I.E.E., Messrs. Roche and McConnell.
M. J. O'FLANAGAN, B.E., Chief Inspector, Department of Education.

OPHTHALMIC OPTICS

The President and Two Members of Council, Association of Ophthalmic Opticians, Ireland.

POST OFFICE ENGINEERING

T. GOGGIN and K. O’HIGGINS, Irish Post Office Engineering Union.
M. J. O'FLANAGAN, B.E., Chief Inspector, Department of Education.
COLLEGE OF TECHNOLOGY—KEVIN ST.
Phone Nos. 56478-9.

AND

RADIO SCHOOL, 51 HARCOURT STREET
Phone No. 51469

Principal:
MARTIN J. CRANLEY, M.Sc., F.I.C.I., F.R.I.C.

Assistant Principal:
HUGH DE LACY, B.E., B.Sc., A.M.I.E.E.

DEPARTMENT OF PURE AND APPLIED SCIENCE

Lecturer-in-Charge, Chemistry and Biology:
Lecturer-in-Charge, Mathematics: John M. Forde, B.E.

DEPARTMENT OF ELECTRICAL ENGINEERING

Head of Department: Hugh de Lacy, B.E., B.Sc., A.M.I.E.E.
Lecturer-in-Charge: Brendan Scaife, B.Sc. (Eng.), Ph.D., A.M.I.E.E.

DEPARTMENT OF ELECTRICAL INSTALLATION WORK

Head of Department: Liam Trundle, Full Technological Certificate (E.E.P.) (City and Guilds of London Institute).

DEPARTMENT OF TELECOMMUNICATIONS ENGINEERING

Head of Department: Harold Hodgens.

Spiritual Directors:
Rev. L. M. Kearns, S.J.  Rev. P. Dunne, S.J.


Clerical Staff:
Robert J. Day, Senior Clerk.
Joseph Flynn, Miss P. Sheehan.

Instrument Technician: J. Farrell.
STAFF TEACHERS

T. Ambrose, B.Sc.
S. Anthony, F.Inst. B.B., City and Guilds, F.T.C.
J. Blemmerhassett
D. T. Carey, City and Guilds, F.T.C.
P. Connell
T. Cronin, B.E.
S. Cullen.
K. P. Culliton, F.A.O.I.
Miss Frances Doherty, B.Sc., B.A. (Mod.),
J. T. Downes
M. Farrell, City and Guilds, F.T.C.
P. O Gallchobhair, B.Eol., A.T.O.
N. F. Goulding

D. Harley
J. V. Honan, A.M.Brit.I.R.E.
R. Kelly
D. McManus
E. J. McNamara
D. Naessens
T. P. O'Brien, A.M.Brit.I.R.E.
M. J. O'Rorke
M. J. Rice, Grad.Brit.I.R.E.
E. J. Rothery, B.Sc., F.I.C.I., A.R.I.C.
E. G. Seale, A.M.Brit.I.R.E.
M. J. Sheehy, B.Sc., A.Inst.P.
I. Tighe

PART-TIME TEACHERS

W. McD. Armstrong, Ph.D.
N. Boylan
W. G. Brady
J. Broe
L. Cahill
R. J. Cloughley, Grad.I.E.E.
J. F. Colbert, A.M.I.E.E.
J. Connell
Miss K. Cunningham
J. Daly, B.E.
R. A. D'Arcy, B.Sc., M.I.C.I., A.R.I.C.
W. de Lacy
J. W. Devon
E. D. Doyle, Grad.Brit.I.R.E.
V. Duggan, A.M.I.E.E.
W. Dunne
Capt. B. Planagan
E. C. Hanley, B.E.
P. Harrington, A.M.I.E.E.
P. Haughey, Grad.Brit.I.R.E.
M. Hayes
F. Hill, M.Sc., M.I.C.I.
R. Hooper, B.E.
R. Howley
T. J. Kelly
J. M. Kennedy, A.M.I.E.E.
D. Kely, A.M.I.E.E.
T. Lawless
I. J. McCowan
P. G. McNamara, B.E.

T. P. Mahon
Rev. M. Moloney, S.J.
D. Nolan, L.R.C.P. & S.I., D.P.H.
P. O'Boyle, B.Sc.
R. O'Brien
F. M. O'Carroll, B.Sc., A.I.S.
J. O'Connor
S. L. O'Connell, B.Sc., A.R.I.C.
J. O'Donovan, B.Sc.
T. O'Halloran
J. O'Keefe, A.M.I.E.E.
C. P. O'Toole, M.Sc.
A. W. Patterson
P. J. Quigley, B.Sc.
J. Ring, B.A.
V. Roddy, A.M.I.E.E.
A. Ryan, B.E.
M. Ryan
R. Ryder, M.E., B.Sc.
W. Scaife, B.Sc., A.I.E.E.
J. Shaw, B.Sc.
T. J. Sheerin
M. Smyth
G. Waters, B.E.
W. Whyte
REGULATIONS GOVERNING THE ADMISSION OF STUDENTS TO CLASSES AND COURSES

The attention of all students is directed to the General Regulations for Schools and Classes operating under the authority of the City of Dublin Vocational Education Committee. These Regulations are displayed on the Notice Board in the Hall and they govern Admission and Enrolment, Fees, Transfers, Formation and Continuance of Classes, Discipline, etc.

ENROLMENT

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 Teacher-in-charge or by the Head of Department, Assistant Principal or Principal. The requisite Course Fees, together with the completed form of enrolment, must be lodged in the College office; 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’ Association and/or the official Trade Unions of the trade concerned.

Enrolment subsequent to Monday 2nd October, 1961, may be made only on the authority of the Principal.
WHOLE-TIME COURSES

Ref.: W.R.S.  Radio Service Work

Teacher-in-Charge: J. V. HONAN, A.M.BRIT.I.R.E.

Fee: £8 per session.

(£4—September to December; £4—January to June).

Senior Students’ Union Subscription, 10/-.

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 satisfactory whole-time attendance at a technical or secondary school. They will be required to pass an entrance examination in English and Mathematics.

Preference in enrolment will be given to students who hold the Day Vocational Certificate (Manual Training Group) in approved subjects or the Intermediate Certificate (Secondary Schools).

Notice is given that as from September, 1962, prospective students MUST possess one of these educational qualifications.

The subjects of the Course and the allocation of hours to each subject are: FIRST YEAR: Magnetism and Electricity, 6; Radio Theory, 8; Practical Radio Service, 10; Mathematics, 3; English, 3; Drawing 1½; Religious Knowledge, 1. SECOND YEAR: Alternating Current and Electrical Calculations, 3; Radio Theory, 8; Practical Radio Service, 16; Electronics and Tutorial, 3; Business Methods, 1½; Religious Knowledge, 1. In the third term of the second year, Radio Theory will be replaced by Television Theory and Practical Radio Service will include 6 hours per week of Practical Television Servicing.


Ref.: W.R.O.  Radio Officers Certificate Course (Mercantile Marine)

Teacher-in-Charge: H. HODGENS.

Fee: £15 per session or £5 per term.

Senior Students’ Union Subscription, 10/-.

This Course is conducted in the Radio School, 51 Harcourt Street, which is part of the College of Technology, Kevin Street.

The Course prepares students for the examinations for a certificate of competency in Radiotelegraphy and Radiotelephony conducted by
WHOLE-TIME COURSES

the Department of Posts and Telegraphs. This Certificate confers eligibility for employment as a Radio Officer in the International Mercantile Marine Services.

The instruction includes Lectures and Practical Work in Technical Electricity, Radio Communication and Direction Finding and training and practice in maintenance and servicing of Marine Radio equipment, in sending and receiving in the Morse Code, in operating procedures and traffic working, and in the Merchant Shipping Rules and the International Regulations. The College is equipped with approved types of Radio Apparatus as required by the Merchant Shipping Rules, 1953.

The duration of the period of training requisite for the acquirement of a First Class State Certificate of Competency is approximately two sessions. The Certificate Examinations are conducted in the College during December, March and June in each session by the Department of Posts and Telegraphs.

The Syllabuses followed in the Course are those published by the Department of Posts and Telegraphs in conformity with the International Radio Regulations (Telecommunications) Convention.

The subjects of the Course and the allocation of hours per week to each subject are as follows:—

FIRST YEAR: 1ST AND 2ND TERMS: Technical Electricity, 9; Morse, 19½; International Regulations, 1½; Typewriting, 1½; Social Science, 1. 3RD TERM: Technical Electricity, 4½; Radio Communication Theory, 6; Practical Radio, 6; Morse, 12½; Physical Geography and Navigation, 1; Rules and Regulations, 1½; Social Science, 1.

SECOND YEAR: Technical Electricity, 3; Radio Communication Theory, 6; Practical Radio, 9; Tutorial, 1½; Morse, 11; Rules and Regulations, 1; Social Science, 1.

ENROLMENT AND ENTRANCE EXAMINATIONS: Enrolments will be accepted in the first week of September each year and further enrolments may be accepted in the first week of the spring and summer terms if accommodation is available. Prospective students should have at least the Intermediate Certificate of the Department of Education or equivalent and may be required to pass an Entrance Examination of this standard in English and Mathematics during enrolment week.

Prospective students will be interviewed in the Radio School, 51 Harcourt Street on September 4th—6th, 1961; January 8th—10th, 1962. Entrance examinations will be held on September 7th, 1961, and January 11th, 1962.
WHOLE-TIME COURSES

Ref.: W.R.R. Marine Radar Maintenance Certificate Course


Fee: £8 per term.

This course is of ten to twelve weeks' duration and provides 32½ hours a week of theory and practical work on up-to-date Marine Radar equipment. The course is open to those who have obtained a Certificate of Proficiency in Radiotelegraphy.

Enrolments are accepted during the first week of the Autumn, Spring and Summer Terms. Radio Officers seeking Study Leave may make advance bookings for a course. Examinations for the Marine Radar Maintenance Certificate, conducted by the Department of Posts and Telegraphs are held in the College at the end of each Course.

Ref.: W.S.U. Pre-University Course in Science


Fee: £15 per session or £5 per term.

Fee per single subject: £2 per term.

Senior Students' Union Subscription, 10/-.

This one-year Course provides instruction in the basic sciences for students who propose to pursue University Courses in Science, Engineering, Medicine, etc., or who wish to prepare for examinations such as College of Surgeons Entrance, the Preliminary examinations of the Pharmaceutical Society of Ireland, Association of Ophthalmic Opticians, Ireland, etc. The syllabuses are those prescribed for the Leaving Certificate Honours of the Department of Education and the Matriculation examination of the National University of Ireland. The subjects of the Course and the allocation of hours to each subject per week are: Physics, 8½; Chemistry, 8; Biology, 6; Social Science, 1.

Ref.: W.S.S. Senior Science Course

Teacher-in-Charge: M. J. Sheehy, B.Sc., A.Inst.P.

Fee: £10 per session.

Senior Students' Union Subscription, 10/-.

This one-year Course provides education in the basic sciences for students who intend to pursue subsequent courses in Science or Electrical Engineering in the College. The subjects of the Course and number of hours allocated to each subject during each week are: Mathematics, 6; Applied Mathematics, 6; Physics, 6; Chemistry, 6;
WHOLE-TIME COURSES

English, 8; Social Science, 1. Prospective students should be approximately 16 years of age and should have already obtained as a minimum the Day Vocational Certificate (Manual Training Group) of the Department of Education with passes in Irish, English, Mathematics, Mechanical Drawing, Mechanics and Heat or Magnetism and Electricity, and Metalwork or Woodwork or the Intermediate Certificate of the Department of Education. Only exceptionally good day junior technical school students or Intermediate Certificate secondary school students can enter on the Course with prospects of success. At the end of the session, students sit the General Certificate of Education (Ordinary Level) of the University of London in the subjects English, Additional Pure Mathematics, Applied Mathematics, Physics and Chemistry. The College is a recognised centre for this examination. Successful students who intend to follow a career in Science should continue to Course W.S.I. below and those who intend to follow a career in Electrical Engineering should continue to Course S.E.E. Courses in Civil and Mechanical Engineering are provided in the College of Technology, Bolton Street.

Scholarships: The City of Dublin Vocational Education Committee offers scholarships to this Course. For details, see page 46 of this Prospectus.

Ref.: W.S.I. Intermediate B.Sc. Degree Course


Fee: £15 per session.

(£7 10s.—September to December; £7 10s.—January to June).

Senior Students’ Union Subscription, 10/-.

This one-year Course provides education in Mathematics, Applied Mathematics, Physics and Chemistry for the General Certificate of Education (Advanced Level) of the University of London. Passes in three of these subjects at Advanced Level, together with a pass in English at Ordinary Level, exempts from the Intermediate Examination in Science of the University of London (Inter.B.Sc.). The College is a recognised centre for these Advanced Level Examinations. Prospective students must have already obtained the General Certificate of Education at Ordinary Level in English, Additional Pure Mathematics, Applied Mathematics, Physics, and Chemistry or attained an approved equivalent standard.

The subjects of the Course and the number of hours per week allocated to each subject are: Mathematics, 8; Applied Mathematics, 9; Physics, 10; Chemistry, 9; French, 3; Industrial Organisation, 1½; Philosophy, 1. Each student has the choice
WHOLE-TIME COURSES

of taking either Applied Mathematics or Chemistry—the two subjects cannot be taken together. Successful students of the Course obtain employment in industries which utilise scientific processes, and by subsequent attendance at appropriate evening classes in the College may proceed to the B.Sc. (External) Degree of the University of London. (See Courses 23 and 24 on page 28.)

Ref.: W.S.O. Ophthalmic and Dispensing Opticians' Course

Teacher-in-Charge: K. P. Culliton, F.A.O.I.

Fee: £20 per session.

Students' Union Subscription, 10/-.

This Course provides for the education and training of Ophthalmic and Dispensing Opticians. Consequent on the Opticians Act, 1956, it is now necessary for all Ophthalmic and Dispensing Opticians to be registered under the Act by Bord na Radharcmhastoiri. Future entrants to these professions must attend courses of training and pass examinations approved by Bord na Radharcmhastoiri. The first two years of the Course are common to both Ophthalmic and Dispensing Optician students. The third year of the Course is provided for Ophthalmic Optician students only. The Association of Ophthalmic Opticians, Ireland, and the Irish Association of Dispensing Opticians co-operate with the Vocational Education Committee in organising the Course, which is approved by Bord na Radharcmhastoiri. At the end of each year of the Course, students will sit examinations conducted or approved by the Bord. Prospective students must have passed the Matriculation or Leaving Certificate in Irish, English, Mathematics, and two other subjects, or possess an approved equivalent standard of general education. The subjects of the Course and the allocation of hours per week to each subject are:

**First Year**: Mathematics, 6; Physics, 7½; Chemistry, 6; Biology, 1 term, 9; Anatomy and Physiology, 2 terms, 9; Workshop Practice, 3; Social Science, 1½.


**Third Year**: Ophthalmic Optician students only—Optometry (Theory, Methods, Practice), 18; Physiological Optics, 3; Recognition of the Existence of Abnormal Conditions, 4½; Orthoptics, 3;
SANDWICH COURSES

Ophthalmic Instruments, 1 ½; Environmental Optics, 1 ½; Social Science, 1 ½.

Enrolments in the first year of this Course will be accepted only in alternate years, viz., September, 1961; September, 1963.

Ref.: W.R.E. Radio Engineering Course

Teacher-in-Charge: H. de Lacy, B.E., B.Sc., A.M.I.E.E.

This is a one-year Course specially arranged for Officers of the Army Corps of Signals. The subjects and allocation of hours per week to each subject are: Mathematics, 4 ½; Physics, 3; Electrical Engineering, 9; Radio Engineering, 3; Radio Circuit Theory, 1 ½; Radio Measurements, 1 ½; Radio Propagation, 1 ½; Radio Laboratory, 9. Fee by special arrangement.

SANDWICH COURSES

Ref.: S.E.E. Electrical Engineering Course

College-based Sandwich Course

Teacher-in-Charge: H. de Lacy, B.E., B.Sc., A.M.I.E.E.

Fee: £15 per session.

(£7 10s.—September to December; £7 10s.—January to June).

Senior Students’ Union Subscription, 10/-.

This course, conducted over four sessions, is approved by the Institution of Electrical Engineers and prepares students for the Institution’s Graduateship examination (Grad.I.E.E.). At the end of each of the first three sessions, students will be placed with engineering firms and organisations to acquire approved practical engineering training. Approximately 50 weeks will be spent in this manner and in nearly every case the firm will give a weekly allowance to the student. Attendance, conduct and progress while undergoing practical training are subject to the same disciplinary regulations as attendance at the course. Prospective students must have passed the Leaving Certificate with Honours in Mathematics and passes in Applied Mathematics and Physics with Honours in one, Honours in another subject, and passes in English and another subject or the General Certificate of Education at Ordinary Level in the subjects English, Additional Pure Mathematics, Applied Mathematics, Physics and Chemistry or have attained an equivalent standard in each of these subjects (see Course W.S.S.). The duration of each session, the subjects of the Course and the allocation of hours per week to each subject are:—
SANDWICH COURSES

FIRST YEAR: Beginning of September to end of June. Mathematics (7½ hours), Applied Mathematics (8 hours), Physics (9 hours), Workshop Practice (3 hours), Drawing (3 hours), Industrial Organisation (1½ hours), Philosophy (1 hour). Students are required to pass the General Certificate of Education at Advanced Level in Mathematics, Applied Mathematics and Physics at the end of the session. Practical Engineering Training: Beginning of July to the end of September.

SECOND YEAR: Beginning of October to mid-April. Mathematics (4½ hours), Applied Mechanics (4½ hours), Heat, Light and Sound (6 hours), Principles of Electricity (4½ hours), Electrical Engineering (3 hours), Electronics (1½ hours), Engineering Drawing (3 hours), Theory of Machines (1½ hours), Properties and Strength of Materials (1½ hours), Industrial Organisation (1½ hours), Philosophy (1 hour). Students are required to pass the Part I Examination of the Institution of Electrical Engineers at the end of the session. Practical Engineering Training: Beginning of May to the end of August.

THIRD YEAR: Beginning of September to mid-April. Mathematics (4½ hours), Engineering Physics (6 hours), Electrical Engineering: Machines (6 hours), Measurements (4½ hours), Circuit Theory (1½ hours), Field Theory (1½ hours), Electronics (6 hours), Industrial Organisation (1½ hours), Philosophy (1 hour). Students are required to pass the Part II Examination of the Institution of Electrical Engineers at the end of the session. Practical Engineering Training: Beginning of May to the end of September.

FOURTH YEAR: Beginning of October to the end of June. Mathematics (3 hours), Electrical Engineering: Measurements (6 hours), Machines and Utilisation of Electrical Plant (8 hours), Circuit Theory (1½ hours), Field Theory (1½ hours), Electronics (8 hours), Industrial Organisation (1 hour), Philosophy (1 hour). Students sit the Part III Examination of the Institution of Electrical Engineers at the end of the session.

SCHOLARSHIPS: The City of Dublin Vocational Education Committee offers scholarships to various years of this Course. For details, see page 46 of this Prospectus.

The attention of students of the final year of the Course is directed to the Mallin Memorial Prize, which is described on page 46 of this Prospectus.

Ref.: S.E.T. Electrical Engineering Technicians' Course

Teacher-in-Charge: H. DE LACY, B.E., B.Sc., A.M.I.E.E.

Fee: £5 per stage.

This Course provides for the training of Electrical Engineering Technicians to meet the needs of Irish Industry. The Course is conducted over four stages and each stage consists of 15 weeks whole-
time instruction. The Course prepares students for the Department of Education’s examination in Advanced Electrical Engineering Practice, and also the City and Guilds of London Institute’s Final Examination in Electrical Engineering Practice. Students are expected to sit the City and Guilds of London Institute Electrical Technicians’ Certificate Examination at the end of the third year.

Prospective students will be selected only from second year Electrical Apprentices who have made satisfactory progress during their first two years of apprenticeship or from other applicants who are deemed to possess an equivalent standard of general and technical or scientific education.

The subjects of the Course and the allocation of hours per week to each subject are:—

**DAY COURSE**

**FIRST YEAR**: Magnetism and Electricity (7½ hours), Installation Theory (1½ hours), Electrical Measurements (3 hours), Mathematics (6 hours), Physics (6 hours), Drawing (3 hours), Workshop Practice (3 hours), Tutorial (1 hour), English (1 hour), Social Science (1 hour).

**SECOND YEAR**: Elementary A.C. Theory (4½ hours), Electrical Machines (4½ hours), Electrical Measurements (3 hours), Mathematics (6 hours), Physics (6 hours), Drawing (3 hours), Workshop Practice (3 hours), Tutorial (1 hour), English (1 hour), Social Science (1 hour).

**THIRD YEAR**: Electrical Machines (6 hours), Industrial Electronics (3 hours), Electrical Measurements (3 hours), Mathematics (6 hours), Physics (6 hours), Drawing (3 hours), Workshop Practice (3 hours), Tutorial (1 hour), English (1 hour), Social Science (1 hour). At the end of this year students are required to sit the City and Guilds of London Institute Electrical Technicians’ Final Examination.

**FOURTH YEAR**: Electrotechnology (4½ hours), Distribution and Utilisation of Electrical Energy (4½ hours), Electrical Measurements (3 hours), Industrial Electronics (3 hours), Mathematics (6 hours), Physics (6 hours), Drawing (3 hours), Tutorial (1 hour), English (1 hour), Social Science (1 hour). At the end of this year students are required to sit the examinations indicated in the first paragraph above.
SANDWICH COURSES

Ref.: S.R.P.O. Post Office Engineering

Teacher-in-Charge: T. P. O'BRIEN, A.M.BRIT.I.R.E.

Fee: £3 per stage.

This course is conducted by arrangement with the Department of Posts and Telegraphs and provides technical instruction for Post Office Technician Trainees. The scheme has the co-operation of the Irish Post Office Engineering Union. The course extends over three stages of whole-time instruction (10—15 weeks each) supplemented, between stages, by a correspondence course of approximately 30 weeks. The subjects of the Course and the allocation of hours to each subject are:

**First Year:** Magnetism and Electricity, 12; Physics, 4½; Mathematics, 6; English, 2½; Irish, 1; Drawing, 3; Religious Knowledge, 1; Tutorial, 3.

**Second and Third Years:** Alternating Current and Machines, 7½; Physics, 4½; Electronics, 7½; Mathematics, 6; English, 3; Irish, 1; Religious Knowledge, 1; Tutorial, 2½.

**External Areas:** Technician Trainees from external areas are admitted under special fees by arrangement with the Vocational Education Committees concerned.

The Department of Posts and Telegraphs and the Irish Post Office Engineering Union both offer prizes for students in each year of the Course. See page 47 for details.

Ref.: S.E.S.B. Electrical Installation Work


Fee: £3 per stage.

This Course provides for the full technical training of Apprentice Electricians and has the co-operation of the Trade Unions and the Electricity Supply Board. Apprentices receive one term's instruction (10-15 weeks—33 hours per week) during each of the first four years of apprenticeship. Each stage of whole-time instruction is associated with a correspondence course carried on over an additional period of approximately 35 weeks. The syllabuses of instruction are based on those of the Department of Education for Electrical Installation Work and Electrical Engineering Practice. The subjects of the Course and the allocation of hours are as follows for each year of the Course: Practical Installation and Cable Jointing, 6 or 9; Electrical
SANDWICH COURSES

Installation Technology, 6 or 9; Engineering Science, 3; Drawing, 3; Mathematics, 6 or 3; Workshop Practice and Technology, 6½; English, 1½; Religious Knowledge, ½.

Students are required to sit the following examinations of the Department of Education: At end of Second Stage: Electrical Engineering Practice, Elementary D.C. and A.C., and Junior Trade Certificate in Electrical Installation Work (Theory and Practical). At end of Third Stage: Electrical Engineering Practice, Intermediate D.C. At end of Fourth Stage: Electrical Engineering Practice, Intermediate A.C., and Senior Trade Certificates in Electrical Installation Work (Theory and Practical).

EXTERNAL AREAS: Student Apprentices from External Areas are admitted under special fees by arrangement with the Vocational Education Committee concerned.

A special fifth-year course is provided for selected students. This course extends over five weeks full-time and includes theoretical and practical instruction in Motors and Switchgear, Metering, Earthing, Refrigeration and Special Appliances. The fee for this year of the Course is £5.

The Electricity Supply Board offers prizes for students of the Course. See page 47 for details.

Ref.: S.E.M.S. Electrical Installation Work (Special Summer Course)


A special summer Course of 4-5 weeks whole-time instruction is provided for apprentice electricians employed by Bord na Mona and Comhlucht Siúicre Eireann Teo. The Course consists of four such stages, which are conducted in the College commencing early in July each year. At the end of the second stage of the Course, students sit the Department of Education's Junior Trade Certificate Examination in Electrical Installation Work (Theory and Practical) and Elementary D.C. and at the end of the fourth stage they sit the Senior Trade Certificate Examination and Elementary A.C.

Fees for the Course are specially arranged with the companies and the Vocational Education Committees for the areas in which the students normally reside.
PART-TIME DAY RELEASE COURSES

Ref.: P.E.I. Electrical Installation Work

Fee: £3 per session.

This Course, conducted on one full day and two or three evenings per week, provides technical training for Electrical Apprentices.

FIRST YEAR

Teacher-in-Charge: R. KELLY.

GROUP (A)

<table>
<thead>
<tr>
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<th>Time</th>
<th>Subject</th>
<th>Room</th>
<th>Teacher</th>
</tr>
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<tbody>
<tr>
<td>Monday</td>
<td>7.30-10.00</td>
<td>Engineering Science I</td>
<td>-</td>
<td>8a J. Daly</td>
</tr>
<tr>
<td>Wednesday</td>
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<td>Drawing</td>
<td>-</td>
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<tr>
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<td>Engineering Materials</td>
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<tr>
<td>Friday</td>
<td>9.00-10.00</td>
<td>English and Technical Reports</td>
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<td>4 B. Conway</td>
</tr>
<tr>
<td>Friday</td>
<td>10.00-10.30</td>
<td>Religious Knowledge</td>
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GROUP (B)

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PART-TIME DAY RELEASE COURSES

SECOND YEAR


**GROUP (A)**

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<td>Practical Installation II</td>
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**GROUP (B)**

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</table>

At the end of the second year students are required to sit the Electrical Installation Work Junior Written and Practical and Electrical Engineering Practice D.C. Elementary examinations of the Department of Education, and may sit the City and Guilds of London Institute Electrical Technicians' Intermediate examination.
PART-TIME DAY RELEASE COURSES

Students who successfully complete the second year of the Course and pass with honours in the day class examination may be permitted to enrol in the Part-time Day Senior Science Course, P.S.S., with a view to subsequent enrolment in the Part-time Day Electrical Engineering Course, P.E.E.

THIRD YEAR


GROUP (A)

<table>
<thead>
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<td>Tuesday</td>
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<td>Electrical Installation Technology</td>
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GROUP (B)

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<tr>
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</table>

At the end of this year students are required to sit the Electrical Installation Work Senior Written and Practical and the Electrical Engineering Practice D.C. Intermediate and A.C. Elementary examinations of the Department of Education and are expected to sit the Electrical Installation Work Course B examination of the City and Guilds of London Institute.
PART-TIME DAY RELEASE COURSES

FOURTH YEAR


GROUP (A)

<table>
<thead>
<tr>
<th>Day</th>
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<tr>
<td>Wednesday</td>
<td>7.30-10.00</td>
<td>Electrical Power Equipment</td>
<td>5</td>
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<tr>
<td>Thursday</td>
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<td>Testing Methods (Power)</td>
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<td>J. J. Farrell</td>
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<td>Electrical Engineering Practice (Special Techniques)</td>
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GROUP (B)

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<tbody>
<tr>
<td>Wednesday</td>
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</table>

At the end of this year of the Course all students are required to sit the Electrical Engineering Practice, A.C. Intermediate Examination of the Department of Education and the Electrical Installation Work, Course C, Examination of the City and Guilds of London Institute. Students in Group (A) also sit the City and Guilds of London Institute Electrical Technicians' Final Examination.

Ref.: P.E.H.  

Electrical Housecraft  
October—May.  

Fee: £4 per session.


This Course is designed to meet the requirements of E.S.B. trainee demonstrators, and of other ladies, who wish to sit for the Electrical Housecraft Certificate Examination of the Electrical Association for Women, London. The Course will be conducted on one half-day (3 hours) per week during one session. Prospective students must hold approved qualifications in Domestic Science subjects or Hotel and Catering subjects or in Institutional Management.
PART-TIME DAY RELEASE COURSE

Ref. : P.E.E.  Electrical Engineering
September—June
Fee: £3 per session.

Teacher-in-Charge: B. K. Scaife, B.Sc. (Eng.), Ph.D., A.M.I.E.E.

This Course prepares students for the Graduateship Examination of the Institution of Electrical Engineers (Grad.I.E.E.) and is conducted on one full day and three or four evenings per week. It is provided for electrical apprentices and others in electrical engineering employment who satisfy the regulations for student membership of the I.E.E. The course is approved by the Institution of Electrical Engineers as suitable for preparation for entry to the Institution's examinations.

The attention of prospective students is directed to Course No. 42 on page 34 of this Prospectus and to the corresponding Day Release Course P.S.S. on page 23.

PART I Course

<table>
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<tbody>
<tr>
<td>Monday</td>
<td>9.00-12.30</td>
<td>Tutorial</td>
<td>T. Cronin</td>
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<td>2.00-18.00</td>
<td>Laboratory</td>
<td>W. S. E. Hickson</td>
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Students also attend the appropriate evening classes of Course Nos. 43 or 44.

PART II Course

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<td>B. K. Scaife</td>
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Students also attend the appropriate evening classes of Course Nos. 45 or 46.

PART III Course

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Students also attend the appropriate evening classes of Course No. 47.
PART-TIME DAY RELEASE COURSES

Ref.: P.R.C. Projection Science for Cinema Apprentice Operators
(Session: October to May).
Teacher-in-Charge: J. V. Honan, A.M.BRIT.I.R.E.
Fee: £2 per session.

The Course provides technical training for Cinema Apprentices employed in the Dublin Area, and is organised in co-operation with the Irish Transport and General Workers' Union (Cinema Branch), and the Theatre and Cinema Association (Ireland). The Course extends over three Sessions and provides a minimum of five hours of instruction per week in English, Mathematics, General Science, Electricity, Light and Sound Equipment. An apprentice operator is permitted a maximum of five sessions to complete the Course satisfactorily.

FIRST YEAR: English, Mathematics, and General Science: Monday, 2.00-4.00; Wednesday and Thursday, 10.30-12.30.
SECOND YEAR: Electricity and Light: Tuesday and Friday, 10-12.30.
THIRD YEAR: Electricity and Sound Equipment: Tuesday and Friday, 10-12.30.

The Theatre and Cinema Association (Ireland) and the Irish Transport and General Workers' Union offer prizes for students of the Course. See page 47 for details.

Ref.: P.S.B. Bakery Practice
Teacher-in-Charge: S. Anthony, TECH.DIP. CITY AND GUILDS.
Fee: £2 per session.

The Courses provide instruction in Breadmaking and Flour Confectionery for Bakery Apprentices.

<table>
<thead>
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<th>Time</th>
<th>Subject</th>
<th>Room</th>
<th>Teacher</th>
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<td>English IV</td>
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<td>Bakery Science IV</td>
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<td>7.00-8.00</td>
<td>Bakery Science I</td>
<td>20</td>
<td>S. Anthony,</td>
</tr>
<tr>
<td></td>
<td>8.00-10.00</td>
<td>Bakery Practice IV</td>
<td>20</td>
<td>D. Carey</td>
</tr>
<tr>
<td>Wednesday</td>
<td>9.00-12.30</td>
<td>Bakery Practice IV</td>
<td>20</td>
<td>S. Anthony</td>
</tr>
<tr>
<td></td>
<td>2.00-5.00</td>
<td>English III</td>
<td>17</td>
<td>B. Conway</td>
</tr>
<tr>
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<td>7.00-8.00</td>
<td>Bakery Science III</td>
<td>17</td>
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<td>Bakery Practice IB</td>
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<tr>
<td></td>
<td>2.00-5.00</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Students sit the Intermediate Examination in Breadmaking and Flour Confectionery of the City and Guilds of London Institute at
PART-TIME DAY RELEASE COURSES

the end of the second year and the Final Examinations in Bread-making, Flour Confectionery and Bakery Science, at the end of the fourth year of the Course. The Irish Bakers', Confectioners' and Allied Workers' Union, the Dublin Master Bakers' Committee and the Guild of Irish Bakers, offer cups and prizes for students of the Course. See page 48 for details.

Ref.: P.S.L. Laboratory Technicians' Work

Teacher-in-Charge: L. Breen, B.Sc., Dip.CHEM.TECH.

Fee: £2 per session.

This Course provides training for laboratory attendants and assistants who work in universities, research institutes, industrial firms and schools and is primarily intended for those working in chemical laboratories. Students sit the Intermediate examination of the City and Guilds of London Institute in Laboratory Technicians' Work at the end of the course. Classes are conducted on two half-days and two evenings per week over a period of three sessions of approximately 34 weeks each. Prospective students 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 and be able to furnish a Certificate of satisfactory progress in same. 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. Preference in enrolment will be given to students who hold the Day Vocational Certificate (Manual Training Group) in approved subjects or the Intermediate Certificate (Secondary Schools). Notice is given that as from September, 1962, prospective students MUST hold one of these educational qualifications.

This Course is approved by the Institute of Chemistry of Ireland, and successful students of the Course will be eligible for enrolment as recognised Laboratory Technicians by the Institute of Chemistry of Ireland.

1ST TERM: September 11th—November 24th.
2ND TERM: November 27th—February 23rd.
3RD TERM: February 26th—June 1st.

FIRST YEAR

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Subject</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>7.00-10.00</td>
<td>Glassblowing (1st Term)</td>
<td>1</td>
<td>W. G. Brady</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Metalwork (2nd and 3rd Terms)</td>
<td>1</td>
<td>P. Connell</td>
</tr>
<tr>
<td>Tuesday</td>
<td>2.00-5.00</td>
<td>Chemistry</td>
<td>22</td>
<td>L. Breen</td>
</tr>
<tr>
<td>Wednesday</td>
<td>2.00-3.00</td>
<td>English</td>
<td>12</td>
<td>B. Conway</td>
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<tr>
<td></td>
<td>3.00-5.00</td>
<td>Physics</td>
<td>12</td>
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<td>7.00-8.30</td>
<td>Mathematics</td>
<td>14</td>
<td>D. Naessens</td>
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<tr>
<td></td>
<td>8.30-10.00</td>
<td>Drawing</td>
<td>14</td>
<td>D. Naessens</td>
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## PART-TIME DAY RELEASE COURSES

### SECOND YEAR

<table>
<thead>
<tr>
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<th>Time</th>
<th>Subject</th>
<th>Room</th>
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</tr>
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<td>22</td>
<td>L. Breen</td>
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<tr>
<td></td>
<td></td>
<td>Electricity (2nd and 3rd Terms)</td>
<td></td>
<td>L. Breen</td>
</tr>
<tr>
<td>Thursday</td>
<td>2.00–3.00</td>
<td>English</td>
<td></td>
<td>B. Conway</td>
</tr>
<tr>
<td></td>
<td>3.00–5.00</td>
<td>Physics</td>
<td></td>
<td>L. Breen</td>
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<tr>
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<td>7.00–10.00</td>
<td>Maths. and Drawing (1st Term)</td>
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<td></td>
<td>7.00–10.00</td>
<td>Biology (2nd and 3rd Terms)</td>
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<td>7.00–10.00</td>
<td>Metalwork (1st Term)</td>
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<td>N. Goulding</td>
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<td>Woodwork and Plastics (2nd Term)</td>
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<td>P. Masterson, B. Dunne</td>
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<tr>
<td></td>
<td></td>
<td>Glassblowing (3rd Term)</td>
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<td>W. G. Brady</td>
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</table>

### THIRD YEAR

<table>
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<tr>
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<th>Subject</th>
<th>Room</th>
<th>Teacher</th>
</tr>
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<tbody>
<tr>
<td>Monday</td>
<td>7.00–10.00</td>
<td>Specialised Lab. Techniques</td>
<td>22</td>
<td>L. Breen</td>
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<tr>
<td>Wednesday</td>
<td>9.30–12.30</td>
<td>Electricity (1st and 2nd Terms)</td>
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<td>F. Nolan</td>
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<td>Photography (3rd Term)</td>
<td>15</td>
<td>F. Nolan</td>
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<tr>
<td>Friday</td>
<td>2.00–5.00</td>
<td>Physics (Light) (1st Term)</td>
<td>15</td>
<td>L. Breen</td>
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<tr>
<td></td>
<td></td>
<td>Lab. Organisation (2nd Term)</td>
<td>15</td>
<td>L. Breen</td>
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<td></td>
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<td>Specialised Laboratory Techniques (3rd Term)</td>
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<td></td>
<td>7.00–10.00</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Woodwork and Plastics (2nd Term)</td>
<td>1</td>
<td>P. Masterson, B. Dunne</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Glassblowing (3rd Term)</td>
<td>1</td>
<td>W. G. Brady</td>
</tr>
</tbody>
</table>

**Ref.: P.S.S.**

**Senior Science Course**

**Teacher-in-Charge:** M. J. SHEEHY, B.Sc., A.Inst.P.

**Fee:** £3 per session.

This one-year Course prepares students for the General Certificate of Education Examination at Ordinary Level in the subjects Additional Pure Mathematics, Physics and Chemistry or Applied Mathematics. Conditions for entry to the Course are the same as for the Whole-time Senior Science Course W.S.S. as described on page 8.

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Subject</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday</td>
<td>2.0–4.0</td>
<td>Physics</td>
<td>24</td>
<td>P. A. Start</td>
</tr>
<tr>
<td></td>
<td>4.0–5.0</td>
<td>Mathematics</td>
<td>24</td>
<td>P. J. Quigley</td>
</tr>
<tr>
<td>Friday</td>
<td>2.0–4.0</td>
<td>Chemistry or</td>
<td>24</td>
<td>P. A. Start</td>
</tr>
<tr>
<td></td>
<td>4.0–5.0</td>
<td>Applied Math.</td>
<td>17</td>
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</tr>
<tr>
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<td></td>
<td>Mathematics</td>
<td>24</td>
<td>P. J. Quigley</td>
</tr>
</tbody>
</table>

Students also attend the evening classes of Course No. 20 or Course No. 42.
PART-TIME DAY RELEASE COURSES

Ref.: P.S.I. Intermediate B.Sc. Course

Teacher-in-Charge: W. BRODERICK, M.SC., H.DIP.ED., M.I.C.I.

Fee: £3 per session.

This Course prepares students for the General Certificate of Education at Advanced Level in Mathematics, Physics and Chemistry. Passes in these subjects at Advanced Level exempt from the University of London Intermediate B.Sc. Examination. Prospective students must have passed in English, Mathematics, Physics and Chemistry at Ordinary Level or have attained an approved equivalent standard in these subjects.

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Subject</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday</td>
<td>2.00-4.00</td>
<td>Physics</td>
<td>16</td>
<td>W. S. E. Hickson</td>
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<tr>
<td></td>
<td>4.00-5.00</td>
<td>Mathematics</td>
<td></td>
<td>T. Ambrose</td>
</tr>
<tr>
<td>Thursday</td>
<td>9.00-10.00</td>
<td>Chemistry</td>
<td>24</td>
<td>W. Broderick</td>
</tr>
<tr>
<td></td>
<td>10.00-11.00</td>
<td>Mathematics</td>
<td>24</td>
<td>T. Ambrose</td>
</tr>
<tr>
<td></td>
<td>11.00-12.30</td>
<td>Chemistry (Lab.)</td>
<td>24</td>
<td>W. Broderick</td>
</tr>
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</table>

Students also attend the evening classes of Course No. 21 or 22.

Ref.: P.S.D.I. Part 1, B.Sc. Course


Fee: £3 per session.

This one-year Course prepares students for the Part 1 Examination of the University of London External B.Sc. Degree in Mathematics, Physics and Chemistry. Prospective students must have satisfied the minimum entrance requirements of the University of London and have passed in Mathematics, Physics and Chemistry at Advanced Level in the General Certificate of Education Examinations. In certain circumstances, two passes at Advanced Level and one pass at Ordinary Level at an Advanced Level examination may be accepted.

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Subject</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday</td>
<td>9.00-10.00</td>
<td>Chemistry</td>
<td>24</td>
<td>E. J. Rothery</td>
</tr>
<tr>
<td></td>
<td>10.00-11.00</td>
<td>Mathematics</td>
<td>24</td>
<td>T. Ambrose</td>
</tr>
<tr>
<td></td>
<td>11.00-12.30</td>
<td>Chemistry (Lab.)</td>
<td>21</td>
<td>E. J. Rothery</td>
</tr>
<tr>
<td>Thursday</td>
<td>2.00-3.30</td>
<td>Mathematics</td>
<td>24</td>
<td>T. Ambrose</td>
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<tr>
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<td>3.30-5.00</td>
<td>Physics</td>
<td>24</td>
<td>F. Nolan</td>
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</table>

Students also attend the evening classes of Course No. 23.

24
PART-TIME DAY RELEASE COURSES

Ref.: P.S.D.II. Part II (Final), B.Sc.
Course

Fee: £4 per session.

This three-year Course prepares students for the Part II (Final) External B.Sc. Degree Examination of the University of London in Chemistry and Mathematics.

<table>
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<tr>
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<th>Subject</th>
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<th>Teacher</th>
</tr>
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<tbody>
<tr>
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<td>9.00-10.00</td>
<td>Mathematics</td>
<td>21</td>
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<tr>
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<td>10.00-11.00</td>
<td>Chemistry</td>
<td>21</td>
<td>E. J. Rothery</td>
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<tr>
<td></td>
<td>11.00-12.30</td>
<td>Chemistry (Lab.)</td>
<td>21</td>
<td>E. J. Rothery</td>
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<td>Thursday</td>
<td>2.00-3.30</td>
<td>Chemistry</td>
<td>21</td>
<td>E. J. Rothery</td>
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<tr>
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<td>3.30-5.00</td>
<td>Mathematics</td>
<td>21</td>
<td>T. Ambrose</td>
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Students also attend the evening classes of Course No. 24.

EVENING COURSES

GENERAL EDUCATION COURSES IN OTHER TECHNICAL INSTITUTES

The attention of prospective students who have not attained the appropriate educational entrance standard for admission to courses in this College is directed to the following courses offered in other Institutes:-

1. PRE-SPECIALISATION COURSES AT THE TECHNICAL INSTITUTES, CAPEL STREET, CLOGHER ROAD, KILLESTER, AND MOUNT STREET for entry to trade courses.

2. PREPARATORY COURSE AT THE TECHNICAL INSTITUTE, MOUNT STREET, for entry to General Certificate of Education Courses (Nos. 20 and 42).

At the end of the above courses a qualifying examination will be held in this College for admission to the appropriate courses in this College next session.

3. MATRICULATION COURSE AT THE COLLEGE OF COMMERCE, RATHMINES, AND THE TECHNICAL SCHOOL, EMMET ROAD, INCHICORE.

DEPARTMENT OF PURE AND APPLIED SCIENCE

Mathematics

Teacher-in-Charge: J. M. Forde, B.E.

FEES: Courses Nos. 1-9 —20/- each per session.
Courses Nos. 10-19—30/- each per session.

MATHEMATICS FOR ENGINEERING PRACTICE AND TRADES

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
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<tbody>
<tr>
<td>1</td>
<td>Practical Mathematics I</td>
<td>Friday</td>
<td>7.30–9.30</td>
<td>20</td>
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<tr>
<td>2</td>
<td>Do. II</td>
<td>Wed.</td>
<td>7.30–9.30</td>
<td>19</td>
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</tr>
<tr>
<td>3</td>
<td>Do. III</td>
<td>Thursday</td>
<td>7.30–9.30</td>
<td>8c</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Do. IV</td>
<td>Thursday</td>
<td>7.30–10.00</td>
<td>4</td>
<td>J. Daly</td>
</tr>
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</table>

Students are required to sit the Department of Education Examinations in Mathematics, Elementary, at the end of Stage II and Mathematics, Intermediate, at the end of Stage IV
### EVENING COURSES

#### MATHEMATICS FOR TELECOMMUNICATIONS (INCLUDING RADIO SERVICE WORK AND POST OFFICE ENGINEERING)

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Mathematics for Telecommunications (Elementary)</td>
<td>Wed.</td>
<td>7:30-9:30</td>
<td>8c</td>
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<td>6</td>
<td>Mathematics for Telecommunications IA</td>
<td>Wed.</td>
<td>7:30-9:30</td>
<td>14</td>
<td>E. D. Doyle</td>
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<td>Tuesday</td>
<td>7:30-9:30</td>
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<td>E. D. Doyle</td>
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<td>Thursday</td>
<td>7:30-9:30</td>
<td>15</td>
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<td>Do. III</td>
<td>Friday</td>
<td>7:30-9:30</td>
<td>28</td>
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Students are required to sit the City and Guilds of London Institute Examinations in Mathematics for Telecommunications A and B at the end of Stages I and II, respectively.

#### MATHEMATICS FOR ENGINEERING

<table>
<thead>
<tr>
<th>No. of Course</th>
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<th>Teacher</th>
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<td>10</td>
<td>Mathematics for Engineering I</td>
<td>Tuesday</td>
<td>7:00-10:00</td>
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<td>P. Gallagher</td>
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<td>11</td>
<td>Do. II</td>
<td>Friday</td>
<td>9:00-10:00</td>
<td>17</td>
<td>P. G. McNamara</td>
</tr>
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<td>12</td>
<td>Do. III</td>
<td>Tuesday</td>
<td>7:00-8:00</td>
<td>15</td>
<td>P. G. McNamara</td>
</tr>
<tr>
<td>13</td>
<td>Do. IV</td>
<td>Wednesday</td>
<td>7:00-8:00</td>
<td>11</td>
<td>J. M. Forde</td>
</tr>
<tr>
<td>14</td>
<td>Do. V</td>
<td>Monday</td>
<td>9:00-10:00</td>
<td>13</td>
<td>J. M. Forde</td>
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</tbody>
</table>

Students are required to sit the General Certificate of Education Examination in Additional Pure Mathematics (Ordinary Level) at the end of the first stage. The Joint Part I Examination in Mathematics of the professional engineering institutions may be taken at the end of Stage III and the Part II Examination of the Institution of Electrical Engineers at the end of Stage V, by registered students.

The Department of Education Examinations in Mathematics Advanced may also be taken at the end of Stage III and the Higher Technological Examination at the end of Stage V.

#### MATHEMATICS FOR SCIENCE

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>Mathematics I</td>
<td>Friday</td>
<td>7:00-10:00</td>
<td>5</td>
<td>T. K. O'Donnell</td>
</tr>
<tr>
<td>16</td>
<td>Do. II</td>
<td>Friday</td>
<td>7:00-10:00</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Do. III</td>
<td>Wednesday</td>
<td>7:00-10:00</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Do. IV</td>
<td>Tuesday</td>
<td>7:00-10:00</td>
<td>27</td>
<td>T. Ambrose</td>
</tr>
<tr>
<td>19</td>
<td>Do. V</td>
<td>Friday</td>
<td>7:00-10:00</td>
<td>27</td>
<td>T. Ambrose</td>
</tr>
</tbody>
</table>

Students are required to sit the General Certificate of Education Examination in Additional Pure Mathematics, Ordinary Level, at the end of the first stage and the Advanced Level at the end of the third stage. (Advanced Level is equivalent to the Intermediate Examination for the B.Sc. Degree of the University of London). At the end of Stage IV students sit the Part I examination in Mathematics of the University of London External B.Sc. Degree.
EVENING COURSES

PURE AND APPLIED CHEMISTRY

B.Sc. DEGREE COURSE (UNIVERSITY OF LONDON)

This Course is provided for students who wish to sit for the University of London external B.Sc. Degree (General). Conditions for entry to the Course are the same as for the whole-time Senior Science Course (W.S.S.) as described on page 8. Students should arrange to comply with the regulations for registration as external students of the University of London as soon as possible and should obtain copies of the regulations relating to University Entrance Requirements from the Secretary to the University Entrance and School Examinations Council, University of London, Senate House, London, W.C.1.

The Course extends over at least seven sessions. At the end of the first year students are required to sit the General Certificate of Education Examination in Additional Pure Mathematics, Physics and Chemistry at Ordinary Level and at the end of the third year the General Certificate of Education in the same subjects at Advanced Level. Passes in these three subjects at Advanced Level, together with a pass in English at Ordinary Level, exempt from the Intermediate Examination for the B.Sc. Degree.

September-May—Fee, £2 per session.

FIRST YEAR: GENERAL CERTIFICATE OF EDUCATION—ORDINARY LEVEL

Teacher-in-Charge: L. BREEN, B.Sc., DIP.CHEM.TECH.

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>Physics I</td>
<td>Thursday</td>
<td>7.00-10.00</td>
<td>12-10</td>
<td>M. J. Sheehy</td>
</tr>
<tr>
<td></td>
<td>Chemistry I</td>
<td>Tuesday</td>
<td>7.00-10.00</td>
<td>25, 22</td>
<td>W. Broderick</td>
</tr>
<tr>
<td>or</td>
<td>Chemistry IA</td>
<td>Wed.</td>
<td>7.00-10.00</td>
<td>25, 22</td>
<td>L. Breen</td>
</tr>
<tr>
<td></td>
<td>Mathematics (15)</td>
<td>Friday</td>
<td>7.00-10.00</td>
<td>5</td>
<td>T. K. O'Donnell</td>
</tr>
<tr>
<td></td>
<td>English (optional)</td>
<td>Monday</td>
<td>7.00-10.00</td>
<td>14</td>
<td>T. A. G. Dowling</td>
</tr>
</tbody>
</table>

INTERMEDIATE B.Sc. COURSE (GENERAL CERTIFICATE OF EDUCATION—ADVANCED LEVEL)


SECOND YEAR:

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>Physics II</td>
<td>Wednesday</td>
<td>7.00-10.00</td>
<td>16, 17</td>
<td>C. O'Toole</td>
</tr>
<tr>
<td></td>
<td>Chemistry II</td>
<td>Monday</td>
<td>7.00-10.00</td>
<td>25, 24</td>
<td>W. Broderick</td>
</tr>
<tr>
<td></td>
<td>Mathematics (16)</td>
<td>Friday</td>
<td>7.00-10.00</td>
<td>25</td>
<td></td>
</tr>
</tbody>
</table>
EVENING COURSES

THIRD YEAR:

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>Physics III</td>
<td>Tuesday</td>
<td>7.00-10.00</td>
<td>17, 16</td>
<td>W. S. E. Hickson</td>
</tr>
<tr>
<td></td>
<td>Chemistry III</td>
<td>Friday</td>
<td>7.00-10.00</td>
<td>21</td>
<td>F. Hill</td>
</tr>
<tr>
<td></td>
<td>Mathematics (17)</td>
<td>Wed.</td>
<td>7.00-10.00</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

For details of the Foy Scholarship in Applied Chemistry, see page 47.

FOURTH YEAR: PART I B.Sc. COURSE

Prospective students must have satisfied the minimum entrance requirements of the University of London for the B.Sc. degree and have passed in Mathematics, Physics and Chemistry at Advanced Level. In certain circumstances, two passes at Advanced Level and a pass at Ordinary Level at an Advanced Level examination may be accepted.


<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>23</td>
<td>Physics IV</td>
<td>Monday</td>
<td>7.00-10.00</td>
<td>15, 16</td>
<td>F. Nolan</td>
</tr>
<tr>
<td></td>
<td>Chemistry IV</td>
<td>Friday</td>
<td>7.00-10.00</td>
<td>21</td>
<td>E. J. Rothery</td>
</tr>
<tr>
<td></td>
<td>Mathematics (18)</td>
<td>Tuesday</td>
<td>7.00-10.00</td>
<td>27</td>
<td>T. Ambrose</td>
</tr>
</tbody>
</table>

PART II (Final), B.Sc. Course


This Course extends over three sessions and prepares students for the B.Sc. Degree (External) of the University of London in Chemistry and Mathematics.

Fee: £3 per session.

FIFTH YEAR

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Time</th>
<th>Day</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>Chemistry V</td>
<td>7.00-10.00</td>
<td>Monday</td>
<td>21</td>
<td>W. McD. Armstrong</td>
</tr>
<tr>
<td></td>
<td>Statistics</td>
<td>7.00-10.00</td>
<td>Tuesday</td>
<td>13</td>
<td>F. M. O'Carroll</td>
</tr>
<tr>
<td></td>
<td>Mathematics (19)</td>
<td>7.00-10.00</td>
<td>Friday</td>
<td>27</td>
<td>T. Ambrose</td>
</tr>
</tbody>
</table>

The sixth year of the Course will be provided in the session 1962-63 and the seventh year in 1963-64.

The attention of all students of Course Nos. 20-24 is directed to the additional classes available in the part-time day courses P.S.S., P.S.I, P.S.D. I, and P.S.D. II, described on pages 23-25 of this Prospectus.
EVENING COURSES

GLASSBLOWING

Fee: 30/- per session.

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>Glassblowing</td>
<td>Monday or Friday</td>
<td>7.00-10.00</td>
<td>1</td>
<td>W. G. Brady</td>
</tr>
</tbody>
</table>

MICROBIOLOGY

Diploma Course

September—May


Fee: £3 per session.

This Course extends over two years and is held on two evenings per week. A Diploma will be issued to successful students. Details regarding entry standard, syllabus content, etc., may be obtained by applying in writing to the Principal. Students will be enrolled in the first year of the Course in alternate sessions.

FIRST YEAR (1961-62)

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td>General Principles of Microbiology</td>
<td>Tuesday</td>
<td>7.00-10.00</td>
<td>23, 28</td>
<td>Miss F. Doherty</td>
</tr>
</tbody>
</table>

SECOND YEAR (1962-63)

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Applied Microbiology</td>
<td>Tuesday</td>
<td>7.00-10.00</td>
<td>23, 28</td>
<td>Miss F. Doherty</td>
</tr>
</tbody>
</table>
**EVENING COURSES**

**FLOUR MILLING TECHNOLOGY**


*Fee: 30/- per session.*

### FIRST YEAR

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>27</td>
<td>Flour Milling Technology I</td>
<td>Monday</td>
<td>7.00-9.30</td>
<td>27</td>
<td>W. de Lacy</td>
</tr>
<tr>
<td></td>
<td>Flour Milling Technology and Science I</td>
<td>Thursday</td>
<td>7.00-9.30</td>
<td>27</td>
<td>W. de Lacy</td>
</tr>
</tbody>
</table>

### SECOND YEAR

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>28</td>
<td>Flour Milling Technology II</td>
<td>Monday</td>
<td>7.00-9.30</td>
<td>27</td>
<td>W. de Lacy</td>
</tr>
<tr>
<td></td>
<td>Flour Milling Technology and Science II</td>
<td>Thursday</td>
<td>7.00-9.30</td>
<td>27</td>
<td>W. de Lacy</td>
</tr>
</tbody>
</table>

At the end of the second year students sit for the Intermediate Examination of the Department of Education and of the City and Guilds of London Institute.

### THIRD YEAR

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>29</td>
<td>Flour Milling Technology III</td>
<td>Wed.</td>
<td>7.00-9.30</td>
<td>27</td>
<td>W. de Lacy</td>
</tr>
<tr>
<td></td>
<td>Flour Milling Technology and Science III</td>
<td>Thurs.</td>
<td>7.00-9.30</td>
<td>22</td>
<td>R. A. D'Arcy</td>
</tr>
</tbody>
</table>

### FOURTH YEAR

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>Flour Milling Technology IV</td>
<td>Wed.</td>
<td>7.00-9.30</td>
<td>27</td>
<td>W. de Lacy</td>
</tr>
<tr>
<td></td>
<td>Flour Milling Technology and Science IV</td>
<td>Thurs.</td>
<td>7.00-9.30</td>
<td>22</td>
<td>R. A. D'Arcy</td>
</tr>
</tbody>
</table>

At the end of the fourth year students sit for the Final Examinations of the Department of Education and of the City and Guilds of London Institute.
EVENING COURSES

DEPARTMENT OF ELECTRICAL INSTALLATION WORK

Courses Nos. 31-35 are reserved to Trade Apprentices and Journeymen who pass the Entrance Examination. The attention of students who do not pass this examination is directed to the Courses described on page 25.

Electrical Installation Work

Fee: 30/- per session.

JUNIOR TRADE CERTIFICATE COURSE

FIRST YEAR

Teacher-in-Charge: M. Farrell.

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>Practical Installation I</td>
<td>Monday</td>
<td>7.30-10.00</td>
<td>33</td>
<td>I. Tighe</td>
</tr>
<tr>
<td></td>
<td>Magnetism and Electricity</td>
<td>Tuesday</td>
<td>7.30-10.00</td>
<td>12-10</td>
<td>J. Colbert</td>
</tr>
<tr>
<td></td>
<td>Engineering Science I</td>
<td>Friday</td>
<td>7.30-10.00</td>
<td>3</td>
<td>M. Hayes</td>
</tr>
<tr>
<td>32</td>
<td>Practical Installation I</td>
<td>Wed.</td>
<td>7.30-10.00</td>
<td>33</td>
<td>D. McManus</td>
</tr>
<tr>
<td></td>
<td>Magnetism and Electricity</td>
<td>Monday</td>
<td>7.30-10.00</td>
<td>12-10</td>
<td>I. Tighe</td>
</tr>
<tr>
<td></td>
<td>Engineering Science I</td>
<td>Tuesday</td>
<td>7.30-10.00</td>
<td>8a</td>
<td>R. Kelly</td>
</tr>
</tbody>
</table>

SECOND YEAR

Teacher-in-Charge: I. Tighe.

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>Practical Installation II</td>
<td>Thursday</td>
<td>7.30-10.00</td>
<td>33</td>
<td>D. McManus</td>
</tr>
<tr>
<td></td>
<td>Electrical Installation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Technology IA</td>
<td>Monday</td>
<td>7.30-10.00</td>
<td>3, 6</td>
<td>E. Hanly</td>
</tr>
<tr>
<td></td>
<td>Engineering Science III</td>
<td>Tuesday</td>
<td>7.30-8.45</td>
<td>4</td>
<td>J. J. Farrell</td>
</tr>
<tr>
<td></td>
<td>Electrical Installation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>IIA, Lecture</td>
<td>Tuesday</td>
<td>8.45-10.00</td>
<td>4</td>
<td>J. J. Farrell</td>
</tr>
<tr>
<td>34</td>
<td>Practical Installation II</td>
<td>Thursday</td>
<td>7.30-10.00</td>
<td>33</td>
<td>D. McManus</td>
</tr>
<tr>
<td></td>
<td>Electrical Installation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Technology II</td>
<td>Monday</td>
<td>7.30-10.00</td>
<td>8c, 8b</td>
<td>J. Colbert</td>
</tr>
<tr>
<td></td>
<td>Engineering Science II</td>
<td>Tuesday</td>
<td>7.30-8.45</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electrical Installation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>IIIB, Lecture</td>
<td>Tuesday</td>
<td>8.45-10.00</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Students are required to sit the Junior Trade Certificate Examinations, Written and Practical, and the Electrical Engineering Practice D.C. Elementary Examination of the Department of Education.
EVENING COURSES

SENIOR TRADE CERTIFICATE COURSE

**THIRD YEAR**

*Teacher-in-Charge: E. J. McNamara.*

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>Practical Installation III</td>
<td>Tuesday</td>
<td>7.30–10.00</td>
<td>33</td>
<td>E. J. McNamara</td>
</tr>
<tr>
<td></td>
<td>Electrical Installation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Technology II</td>
<td>Thursday</td>
<td>7.30–10.00</td>
<td>5</td>
<td>M. Farrell</td>
</tr>
<tr>
<td></td>
<td>Engineering Science III</td>
<td>Friday</td>
<td>7.30–8.45</td>
<td>19</td>
<td>J. O'Keeffe</td>
</tr>
<tr>
<td></td>
<td>Electrical Installation III</td>
<td>Friday</td>
<td>8.45–10.00</td>
<td>19</td>
<td>J. O'Keeffe</td>
</tr>
</tbody>
</table>

Students are required to sit the Senior Trade Certificate Examinations, Written and Practical, and the Electrical Engineering Practice D.C. Intermediate and A.C. Elementary Examinations of the Department of Education and are expected to sit the Course "B" examination of the City and Guilds of London Institute.

Students in the above Courses may be permitted to take a class in Mathematics in lieu of Practical Installation.

**EXTRA ELECTRICIANS' CERTIFICATE IN ELECTRICAL INSTALLATION WORK, COURSE C—CITY AND GUILDS OF LONDON INSTITUTE**

**FOURTH YEAR**

*Teacher-in-Charge: J. J. Farrell.*

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>Electrical Installation Technology III</td>
<td>Wed.</td>
<td>7.30–10.00</td>
<td>4</td>
<td>J. O'Keeffe</td>
</tr>
<tr>
<td></td>
<td>Electrical Engineering A.C.I</td>
<td>Tuesday</td>
<td>7.30–10.00</td>
<td>5, 6</td>
<td>V. Duggan</td>
</tr>
<tr>
<td></td>
<td>Mathematics (3)</td>
<td>Thursday</td>
<td>7.30–9.30</td>
<td>8c</td>
<td></td>
</tr>
</tbody>
</table>

This Course also prepares students for the Electrical Engineering Practice A.C. Intermediate examination of the Department of Education.

**CABLE JOINTING**

*Fee: £3 per session. Teacher-in-Charge: D. McManus.*

Prospective students must possess the Senior Trade Certificate in Electrical Installation Work of the Department of Education or satisfy the school authority that they have an equivalent standard of Technical Education.

**FIRST YEAR**

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>37</td>
<td>Cable Jointing I (Lecture and Practical)</td>
<td>Tues. and</td>
<td>7.30–10.00</td>
<td>34</td>
<td>D. McManus</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Thursday</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SECOND YEAR**

(commencing 1962-63)

<table>
<thead>
<tr>
<th>Subject</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable Jointing II</td>
<td>Two evenings to be arranged.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
EVENING COURSES

ELECTRONICS FOR ELECTRICIANS

Fee: £5 per session.


This Course is provided for electricians who wish to acquire a knowledge of electronics as applied to industrial control equipment. The first year of the course provides instruction in the elementary principles of electronics and its application to motor speed control, oil firing equipment, counters and control of lighting circuits. A certificate will be issued to those who successfully complete the first year of the course and pass the appropriate examinations. The second year of the course provides theoretical and practical instruction in the construction of industrial electronic units, e.g., counting units, cut-off units, rapid and slow-acting relay units, amplifiers, triggering units, metal detectors, etc. Prospective students must be electricians who hold the Senior Trade Certificate in Electrical Installation Work of the Department of Education or who satisfy the College Authority that they have an equivalent standard of technical education.

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>38</td>
<td>Electronics for Electricians I</td>
<td>Wednesday</td>
<td>7.30-10.00</td>
<td>3</td>
<td>P. Harrington</td>
</tr>
<tr>
<td>39</td>
<td>Electronics for Electricians II</td>
<td>Thursday</td>
<td>7.30-10.00</td>
<td>1</td>
<td>T. Sheerin</td>
</tr>
</tbody>
</table>

40—MAINTENANCE AND TESTING OF ELECTRICAL EQUIPMENT

Fee: £5 per session.

Teacher-in-Charge: J. J. FARRELL

This Course is provided for electricians who wish to acquire a knowledge of testing methods and equipment.

The Course will be held during the day or the evening and at a time to suit the majority of the applicants.

Prospective students must be electricians who hold the Senior Trade Certificate in Electrical Installation Work of the Department of Education or who satisfy the School Authority that they have an equivalent standard of technical education.
EVENING COURSES

41—REFRIGERATION (THEORY AND PRACTICE)

Fee: £5 per session.

Teacher-in-Charge: L. TRUNDLE, Full Technological Certificate (E.E.P.) (City and Guilds of London Institute)

This Course is provided for refrigeration mechanics. It includes theoretical instruction in the principles of electricity and of refrigeration and practical instruction in maintenance, fault-finding and repairs. Prospective students must have a standard of general and technical education acceptable to the College authority. Classes will be held on Tuesday evenings from 7.30-10.0 p.m. in Rooms 5 and 1. Teachers: A. Ryan and J. Broe.

ELECTRICAL ENGINEERING

Graduateship of the Institution of Electrical Engineers

The syllabi of this Course are designed to meet the requirements of evening students who wish to prepare for the professional examinations of the Institution of Electrical Engineers. The preliminary year of the Course prepares students for the General Certificate of Education in the subjects English, Additional Pure Mathematics, Applied Mathematics and Physics. Passes in these subjects at Ordinary Level are the educational requirement for registration as a student of the Institution of Electrical Engineers, provided they comply with other regulations of the Institution. Students should obtain a copy of the Examination Regulations from the Institution of Electrical Engineers, Savoy Place, Victoria Embankment, London, W.C.2. Extracts from the Bye-Laws of the Institution 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.).

The attention of all students of Course Nos. 42-47 is directed to the additional classes available in the Part-time Day Courses P.S.S. and P.E.E. described on pages 23 and 19 respectively of this Prospectus.

Fee, 30/-, September–June.

PRELIMINARY COURSE

Teacher-in-Charge: P. GALLAGHER, B.SC., H.DIP.ED.

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>42</td>
<td>Mathematics (10)</td>
<td>Tuesday</td>
<td>7.00–10.00</td>
<td>11</td>
<td>P. Gallagher</td>
</tr>
<tr>
<td></td>
<td>Physics (Eng.) I</td>
<td>Wed.</td>
<td>7.00–10.00</td>
<td>8a-10</td>
<td>M. J. Sheehy</td>
</tr>
<tr>
<td></td>
<td>English</td>
<td>-</td>
<td>7.00–10.00</td>
<td>14</td>
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<td></td>
<td>Applied Mathematics</td>
<td>Friday</td>
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<td>11</td>
<td>P. Gallagher</td>
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Prospective students must pass an entrance examination in English and Mathematics. The attention of students who do not pass this examination is directed to the Preparatory Course described on page 25.
EVENING COURSES

GRADUATESHIP COURSE

Students entering this Course must have complied with all the educational requirements for registration as a student of the Institution of Electrical Engineers.

FIRST YEAR


<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
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<tr>
<td>43</td>
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<td>Monday</td>
<td>7.00-8.00</td>
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<td>T. Cronin</td>
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<tr>
<td></td>
<td>Physics for Engineering II</td>
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<td>8.00-9.00</td>
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<tr>
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<td></td>
<td>9.00-10.00</td>
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<td>T. Short</td>
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<td></td>
<td>Mathematics (11)</td>
<td>Tuesday</td>
<td>7.00-8.00</td>
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<td>P. G. McNamara</td>
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<td>8.00-10.00</td>
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<td>8.00-9.00</td>
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<tr>
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SECOND YEAR

Teacher-in-Charge: T. CRONIN, B.E.

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<td>8.00-10.00</td>
<td>16</td>
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<td>18</td>
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</table>
### EVENING COURSES

#### PART II Course

**Teacher-in-Charge:** B. SCAIFE, B.SC. (ENG.), PH.D., A.M.I.E.E.

#### FIRST YEAR

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<tr>
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<tr>
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<td>Wednesday</td>
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<td>Engineering Physics I</td>
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<td>8.00–9.00</td>
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<td>Friday</td>
<td>7.00–10.00</td>
<td>16, 18</td>
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#### SECOND YEAR

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<td>IIA</td>
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<tr>
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<td>7.00–10.00</td>
<td>16, 18</td>
<td>B. Scaife</td>
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<td>Laboratory</td>
<td>Friday</td>
<td>7.00–10.00</td>
<td>13</td>
<td>B. O'Connor</td>
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</table>

#### PART III Course

**Teacher-in-Charge:** B. SCAIFE, B.SC. (ENG.), PH.D., A.M.I.E.E.

#### FIRST AND SECOND YEAR

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
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</thead>
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<td></td>
<td>Electrical Measurements</td>
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<td>8.00–9.00</td>
<td>15</td>
<td>T. Short</td>
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<tr>
<td></td>
<td>Electromagnetic Theory</td>
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<td>9.00–10.00</td>
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<td></td>
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<td>Wednesday</td>
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<td>Advanced Electrical En-</td>
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<td>8.00–10.00</td>
<td>23</td>
<td>R. Ryder</td>
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<tr>
<td></td>
<td>gineering</td>
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<td>7.00–10.00</td>
<td>18</td>
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<tr>
<td></td>
<td>Laboratory</td>
<td>Friday</td>
<td>7.00–10.00</td>
<td>13</td>
<td>B. O'Connor</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>13</td>
<td>H. de Lacy</td>
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</table>

The Part III Course extends over two sessions. Students who have passed the Part II examination will be enrolled in the October of any year.

36
EVENING COURSES

DEPARTMENT OF TELECOMMUNICATIONS ENGINEERING

POST OFFICE ENGINEERING

*Teacher-in-Charge:* T. P. O'BRIEN, A.M.BRIT.I.R.E.

These Courses are designed to meet the requirements of employees of the Engineering Branch of the Department of Posts and Telegraphs and of others in similar industrial employment. The Courses have recently been re-organised in co-operation with the Post Office Engineering Advisory Committee. Applicants for admission to Course No. 48 will be required to sit an entrance examination in Mathematics and English of the same standard as that of the Department of Education (Technical Instruction Branch) Day Vocational Certificate. Applicants who fail to reach this standard will be required to attend a preliminary course to be held in another Technical Institute (see page 25).

Fee: 30/- per session.

**FIRST YEAR**

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
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<tbody>
<tr>
<td>48</td>
<td>Magnetism and Electricity</td>
<td>Monday</td>
<td>7.30-9.30</td>
<td>4</td>
<td>J. J. Woods</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Friday</td>
<td>7.00-10.00</td>
<td>8c &amp; 10</td>
<td>J. J. Woods</td>
</tr>
<tr>
<td></td>
<td>Mathematics (6)</td>
<td>Wed.</td>
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<td>11</td>
<td>E. D. Doyle</td>
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</table>

Students sit the Department of Education Examination in Magnetism and Electricity and the City and Guilds of London Institute Examination in Mathematics for Telecommunications I.

**SECOND YEAR**

<table>
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<th>No. of Course</th>
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<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>49</td>
<td>Telecommunications I</td>
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<td>7.30-9.30</td>
<td>5</td>
<td>T. P. O'Brien</td>
</tr>
<tr>
<td></td>
<td>Line Plant Practice</td>
<td>Tuesday</td>
<td>7.30-9.30</td>
<td>7H</td>
<td>J. M. F. Kennedy</td>
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<td>Mathematics (8)</td>
<td>Thursday</td>
<td>7.30-9.30</td>
<td>15</td>
<td>E. D. Doyle</td>
</tr>
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</table>

Students sit the Department of Education Examinations in Telecommunications I and Line Plant Practice and the City and Guilds of London Institute Examination in Mathematics for Telecommunications II.
### EVENING COURSES

#### THIRD YEAR

<table>
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<td>Thursday</td>
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<td>4H</td>
<td>J. W. Devon</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Telecommunications II B</td>
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<tr>
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<td>Friday</td>
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<td>5H</td>
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Students sit the Department of Education Examination in Telecommunications II A or II B.

#### FOURTH YEAR

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<td>7.30-9.30</td>
<td>7H</td>
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<td>communications</td>
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<td>Mathematics (9)</td>
<td>Friday</td>
<td>7.30-9.30</td>
<td>28</td>
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</table>

Students sit the Department of Education Examination in Electronics for Telecommunications. The fifth year of the Course will be offered in 1962-63 and will consist of Transmission and Lines or Radio Communication (2 evenings each).

#### POST OFFICE FACTORY MECHANICS

A course has been arranged for Junior Mechanics employed by the Post Office Factory. Most of the classes are concurrent with those described above. **Fee: 30/- per session.**

#### FIRST YEAR

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<th>Time</th>
<th>Room</th>
<th>Teacher</th>
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<tbody>
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<td>53</td>
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<td>7.30-9.30</td>
<td>5</td>
<td>T. P. O’Brien</td>
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<tr>
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<td>Telephone Repairs A</td>
<td>Tuesday</td>
<td>7.30-9.30</td>
<td>8c</td>
<td>R. O’Brien</td>
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<td>7.30-9.30</td>
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#### THIRD YEAR

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<td>4H</td>
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<td>Tuesday</td>
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<td>8c</td>
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<td>Friday</td>
<td>7.30-9.30</td>
<td>5H</td>
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#### FOURTH YEAR: As Course 51 above.
EVENING COURSES

RADIO AND TELEVISION SERVICING

Applicants for admission to this Course should hold the Primary School Leaving Certificate and have, in addition, at least one year's satisfactory whole-time attendance at a technical or secondary school. They will be required to pass an Entrance Examination in Mathematics and English.

Preference in enrolment will be given to students who hold the Day Vocational Certificate (Manual Training Group) in approved subjects or the Intermediate Certificate (Secondary Schools).

Notice is given that as from September, 1962, prospective students MUST possess one of these educational qualifications.

Priority in enrolment is given to those apprenticed in the Radio Service Trade.

Teacher-in-Charge: E. G. Seale, GRAD.BRIT.I.R.E.

Fee: 30/- per session.

FIRST YEAR

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
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<td>55</td>
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<td>7.30-10.00</td>
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SECOND YEAR

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<th>Room</th>
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<td>T. J. Kelly</td>
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<tr>
<td>56 Radio and Television Servicing I</td>
<td>Friday</td>
<td>7.30-10.00</td>
<td>9</td>
<td>T. J. Kelly</td>
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<tr>
<td>56 Mathematics (6) (Optional)</td>
<td>Wed.</td>
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</table>

At the end of this year of the Course students sit the examinations of the Department of Education in Radio Service Work (Junior).

THIRD YEAR

<table>
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<th>No. of Course</th>
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<td>57 Radio and Television Servicing II</td>
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<tr>
<td>57 Radio and Television Servicing II</td>
<td>Thursday</td>
<td>7.00-10.00</td>
<td>9</td>
<td>J. V. Honan</td>
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</table>

At the end of this year of the Course students sit the examinations of the Department of Education in Radio Service Work (Senior) and may sit the Intermediate Examination in Radio and Television Servicing of the Radio Trades Examination Board, London.
## EVENING COURSES
### Fourth Year

<table>
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<th>No. of Course</th>
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<tr>
<td>58</td>
<td>Radio &amp; Television Servicing III—Lecture</td>
<td>Monday</td>
<td>7.30–10.00</td>
<td>5H</td>
<td>E. G. Seale</td>
</tr>
<tr>
<td></td>
<td>Radio &amp; Television Servicing III—Laboratory</td>
<td>Wednesday (Sept.-Dec.)</td>
<td>7.00–10.00</td>
<td>9</td>
<td>E. G. Seale</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wednesday or Thursday (Jan to May)</td>
<td>7.00–10.00</td>
<td>6H</td>
<td>E. G. Seale</td>
</tr>
</tbody>
</table>

### Fifth Year

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>59</td>
<td>Radio &amp; Television Servicing IV—Lecture</td>
<td>Wednesday</td>
<td>7.30–10.00</td>
<td>5H</td>
<td>T. Lawless</td>
</tr>
<tr>
<td></td>
<td>Radio &amp; Television Servicing IV—Laboratory</td>
<td>Monday or Friday</td>
<td>7.00–10.00</td>
<td>6H</td>
<td>T. Lawless</td>
</tr>
</tbody>
</table>

At the end of this year of the Course, students sit the Final Examination in Radio and Television Servicing of the Radio Trades' Examination Board, London.

### RADIO OFFICERS' CERTIFICATE COURSE
(Mercantile Marine)

**Teacher-in-Charge:** H. Hodgens  
**Fee:** £5 per Session

This Course is conducted in the Radio School, 51 Harcourt Street, which is part of the College of Technology, Kevin Street.

The Course extends over three years for a 2nd Class Certificate and an additional year is necessary for a 1st Class Certificate. Prospective students should have a general education equivalent to that of Intermediate Certificate and will be required to pass an Entrance Examination in English and Mathematics.

### Timetable (September to June)

### First Year

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>Morse</td>
<td>Tuesday</td>
<td>7.00–10.00</td>
<td>3H</td>
<td>J. J. McCowen</td>
</tr>
<tr>
<td></td>
<td>Morse</td>
<td>Wednesday</td>
<td>7.00–10.00</td>
<td>4H</td>
<td>J. J. McCowen</td>
</tr>
<tr>
<td></td>
<td>Morse</td>
<td>Thursday</td>
<td>7.00–10.00</td>
<td>3H</td>
<td>J. J. McCowen</td>
</tr>
<tr>
<td></td>
<td>Technical Electricity I</td>
<td>Friday</td>
<td>7.00–10.00</td>
<td>8a, 8b</td>
<td>P. Harrington</td>
</tr>
</tbody>
</table>
EVENING COURSES

SECOND YEAR

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>61</td>
<td>Morse - - -</td>
<td>Monday</td>
<td>7.00-10.00</td>
<td>3H</td>
<td>M. O'Rorke</td>
</tr>
<tr>
<td></td>
<td>Technical Electricity II</td>
<td>Tuesday</td>
<td>7.30-9.30</td>
<td>5H</td>
<td>P. Harrington</td>
</tr>
<tr>
<td></td>
<td>Morse - - -</td>
<td>Wed.</td>
<td>7.00-9.00</td>
<td>3H</td>
<td>D. Harley</td>
</tr>
<tr>
<td></td>
<td>International Regulations - - -</td>
<td>Wed.</td>
<td>9.00-10.00</td>
<td>3H</td>
<td>D. Harley</td>
</tr>
<tr>
<td></td>
<td>Radio Communication Theory I -</td>
<td>Thursday</td>
<td>7.30-9.30</td>
<td>5H</td>
<td>T. J. Kelly</td>
</tr>
</tbody>
</table>

THIRD YEAR

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>62</td>
<td>Radio Communication Theory II</td>
<td>Monday</td>
<td>7.30-9.30</td>
<td>4H</td>
<td>T. J. Kelly</td>
</tr>
<tr>
<td></td>
<td>Practical Radio</td>
<td>Tues. or Thurs.</td>
<td>7.00-10.00</td>
<td>2H</td>
<td>D. Harley</td>
</tr>
<tr>
<td></td>
<td>Morse - - -</td>
<td>Wed.</td>
<td>7.00-9.00</td>
<td>3H</td>
<td>D. Harley</td>
</tr>
<tr>
<td></td>
<td>International Regulations</td>
<td>Wed.</td>
<td>9.00-10.00</td>
<td>3H</td>
<td>D. Harley</td>
</tr>
<tr>
<td></td>
<td>Technical Electricity III</td>
<td>Friday</td>
<td>7.00-8.30</td>
<td>4H</td>
<td>L. O'Reilly</td>
</tr>
<tr>
<td></td>
<td>Morse - - -</td>
<td>Friday</td>
<td>8.30-10.00</td>
<td>4H</td>
<td>L. O'Reilly</td>
</tr>
</tbody>
</table>

FOURTH YEAR: Radio Communication, Theory and Tutorial; Practical Radio; Morse, Traffic Working and International Regulations (3 evenings).

This year of the Course will be offered during the session 1962-63 if there is sufficient demand.

Course No. 63 | NOTE: Morse may be taken as a single subject, if accommodation permits, at a fee of 30/- per Term.

For additional information, see pages 6 and 7.
EVENING COURSES

Air Navigation—Civil Aviation

Teacher-in-Charge: CAPT. B. FLANAGAN.

These Courses are conducted in the Radio School, 51 Harcourt Street, which is part of the College of Technology, Kevin Street.

Courses in AIR NAVIGATION subjects in preparation for the State Examination for Pilot’s and Navigator’s Licences.

The Courses offer specialised instruction based on the Syllabuses for the various Licence examinations conducted by the Department of Transport and Power. 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 five-figure logarithms.

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

64. AIRCRAFT DISPATCHER COURSE

September to June—Fee: £10.

This Course, which is conducted on three evenings per week, is officially recognised by the Civil Aeronautics Administration, United States Department of Commerce. Students who successfully graduate from this Course are eligible to sit for the C.A.A. Aircraft Dispatcher’s Licence provided they are at least 23 years of age.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aircraft Dispatching, Navigation, Aircraft</td>
<td>Capt. B. Flanagan</td>
</tr>
<tr>
<td>Instruments, Civil Air Regulations</td>
<td></td>
</tr>
<tr>
<td>Telecommunications and Radio Aids to</td>
<td>J. Ring</td>
</tr>
<tr>
<td>Navigation</td>
<td>J. O'Connor</td>
</tr>
<tr>
<td>Meteorology</td>
<td>R. Howley</td>
</tr>
<tr>
<td>Air Traffic Control</td>
<td></td>
</tr>
<tr>
<td>Aircraft (Airframes, Engines, etc.)</td>
<td>A. W. Patterson</td>
</tr>
<tr>
<td>Link Trainer</td>
<td></td>
</tr>
</tbody>
</table>
EVENING COURSES

<table>
<thead>
<tr>
<th>No.</th>
<th>Course</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>65</td>
<td>Commercial Pilot's Licence</td>
<td>£6 per Session</td>
</tr>
<tr>
<td>66</td>
<td>Airline Transport Pilot's Licence</td>
<td>£8 per Session</td>
</tr>
<tr>
<td>67</td>
<td>Flight Navigator's Licence</td>
<td>£12 per Session</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Subject</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Navigation, Aeronautical Charts, Magnetic Compass, General Meteorology</td>
<td>Capt. B. Flanagan</td>
</tr>
<tr>
<td>Synoptic Meteorology</td>
<td>J. O’Connor</td>
</tr>
<tr>
<td>Telecommunications and Radio Aids to Navigation</td>
<td>J. Ring</td>
</tr>
</tbody>
</table>

CIVIL AIRPORT CONTROL OFFICERS

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

68. PRIVATE PILOT’S LICENCE COURSE

Fee: £5 per Session

The Course commences in November and provides a total of 75 hours instruction. It covers the theoretical portion of the syllabus of the Department of Transport and Power for the Private Pilot's Licence Examination as set out in Memorandum No. PEL/2 revised 1954. Classes are held on two nights each week from 7.30 to 10 p.m.

The number of students enrolled will be limited to a maximum of twenty, and applicants for enrolment must have a minimum of twenty hours flying experience.
EVENING COURSES

BAKERY PRACTICE AND CONFECTIONERY DECORATION


BAKERY PRACTICE (Journeymen)

Fee: 30/- per Session

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>69</td>
<td>Bakery Practice</td>
<td>Wednes.</td>
<td>7.00-10.00</td>
<td>20</td>
<td>S. Anthony</td>
</tr>
</tbody>
</table>

CONFECTIONERY DECORATION

INTERMEDIATE COURSE

Fee: 30/- per Session

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>70</td>
<td>Design, Icing, Piping</td>
<td>Monday</td>
<td>7.00-10.00</td>
<td>20</td>
<td>D. Carey</td>
</tr>
</tbody>
</table>

ADVANCED COURSE

Fee: 30/- per Session

<table>
<thead>
<tr>
<th>No. of Course</th>
<th>Subject</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>71</td>
<td>Design, Icing, Piping</td>
<td>Thursday</td>
<td>7.00-10.00</td>
<td>20</td>
<td>S. Anthony</td>
</tr>
</tbody>
</table>
EVENING COURSES

SPECIAL COURSES IN ENGINEERING AND SCIENCE
AT GRADUATE OR POST-GRADUATE LEVEL

The College is prepared, subject to availability of accommodation and sufficient demand, to provide one or more Short Courses at Graduate or Post-Graduate Level on topics of Engineering and Scientific Interest during the current session. These Courses would be held on one evening per week, the day and time being arranged to suit the majority of those enrolled. A short list of typical courses, with the estimated number of lectures involved, is given below.

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Lectures</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>Introductory Electronics for Engineers, Part I</td>
<td>20</td>
</tr>
<tr>
<td>101</td>
<td>Introductory Electronics for Engineers, Part II</td>
<td>20</td>
</tr>
<tr>
<td>102</td>
<td>Electronic Circuit Theory</td>
<td>10</td>
</tr>
<tr>
<td>103</td>
<td>Mathematics for Electrical Engineers</td>
<td>10</td>
</tr>
<tr>
<td>104</td>
<td>Transistors and Transistor Circuits</td>
<td>8</td>
</tr>
<tr>
<td>105</td>
<td>Radio Frequency Measurements</td>
<td>10</td>
</tr>
<tr>
<td>106</td>
<td>Transmission Lines and Aerials</td>
<td>8</td>
</tr>
<tr>
<td>107</td>
<td>Modern Physics for Engineers</td>
<td>6</td>
</tr>
<tr>
<td>108</td>
<td>Electronics for Chemists</td>
<td>10</td>
</tr>
<tr>
<td>109</td>
<td>Chromatography</td>
<td>6</td>
</tr>
<tr>
<td>110</td>
<td>Applications of Radio-Active Isotopes</td>
<td>6</td>
</tr>
<tr>
<td>111</td>
<td>Instrumental Analysis</td>
<td>8</td>
</tr>
<tr>
<td>112</td>
<td>Feed Back Control Systems</td>
<td>10</td>
</tr>
<tr>
<td>113</td>
<td>Statistics for Engineers and Scientists</td>
<td>20</td>
</tr>
</tbody>
</table>

FEES: 6 or 8 Lectures—£2. 10 Lectures—£3. 20 Lectures—£5.

Further information may be obtained on application to the Principal, who would welcome suggestions for the inclusion of other subjects of a similar nature.
SCHOLARSHIPS AND PRIZES

SCHOLARSHIPS TO THE SENIOR SCIENCE COURSE

The City of Dublin Vocational Education Committee offers sixteen scholarships known as "Senior Science Scholarships" which entitle the holder to free admission to the Senior Science Course for one year and to either (a) the Intermediate B.Sc. Course for one year or (b) the first year of the Electrical Engineering Course. The scholarships are offered to boys between the ages of 15 and 17 years on 1st January, 1962. Ten scholarships will be awarded to students who have obtained the Day Vocational (Manual Training Group) Certificate (Department of Education—Technical Instruction Branch) by attendance at a Technical Institute or School under the jurisdiction of the Committee. Six scholarships will be awarded to students who have obtained the Intermediate Certificate (Department of Education—Secondary Branch) and who have ordinarily resided in the City of Dublin for the past three years.

Candidates who have entered for the examination for either the Day Vocational (Manual Training Group) Certificate or the Intermediate Certificate in the current year will be permitted to sit for the scholarship examination; however, the award of a scholarship will be contingent on a candidate's success in the former examination.

SCHOLARSHIPS FOR THE ELECTRICAL ENGINEERING COURSE (Whole-time Day)

The City of Dublin Vocational Education Committee offers scholarships to the second, third and fourth years of the above course. The scholarships are awarded on the results of the sessional examinations and consist of free tuition for the succeeding year of the course. One such scholarship will be awarded for each year of the course and where the numbers of students sitting for a sessional examination is ten or more, two such scholarships may be awarded.

MALLIN MEMORIAL PRIZE

Mr. Kevin Mallin, Vice-President of the Ampex Corporation, California, U.S.A., has presented to the City of Dublin Vocational Education Committee funds to endow an award to be known as the Mallin Memorial Prize in memory of his brother, Denis P. Mallin, B.A., late Headmaster of the Technical Institute, Marino, Dublin. The Prize, which is £50 in value, will be awarded to the best student of Electronics in the final year of the Electrical Engineering Sandwich Course S.E.E.
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 the sessional examination in Chemistry held at the end of the 2nd Year B.Sc. Degree Course. 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.

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.

POST OFFICE ENGINEERING

The Department of Posts and Telegraphs offers the following prizes to students of the Post Office Engineering Sandwich Course: 1st Year and 2nd Year—1st Prize £5, 2nd Prize £2; 3rd Year—1st Prize £7, 2nd Prize £3, 3rd Prize £1. The Irish Post Office Engineering Union offers a 1st Prize of £3 and a 2nd Prize of £2 in each of the three years of the Course.

ELECTRICAL INSTALLATION WORK

The Electricity Supply Board offers prizes to a total value of £60 per annum for award to apprentices who secure 1st, 2nd or 3rd Place in the subjects Metalwork and Practical Installation in the Electrical Installation Work Sandwich Course.

PROJECTION SCIENCE

The Theatre and Cinema Association (Ireland) and the Irish Transport and General Workers' Union (Cinema Branch) jointly offer the following Prizes to students attending the Projection Science
Course for Cinema Apprentices: 1st Year—1st Prize £3, 2nd Prize £2, 3rd Prize £1; 2nd Year—1st Prize £5, 2nd Prize £3; 3rd Year—1st Prize, Gold Medal and £5; 2nd Prize, Silver Medal and £3.

**BREADMAKING AND FLOUR CONFECTIONERY**

Silver Cups are awarded by the Irish Bakers, Confectioners' and Allied Workers' Union and the Dublin Master Bakers' Committee, to the students who obtain 1st and 2nd Places in the sessional examinations of the Part-time Day Release Course.

The Dublin Master Bakers' Committee, the Guild of Irish Bakers and the Irish Bakers and Confectioners' and Allied Workers' Union jointly offer the following prizes to apprentices who pass the Final examinations of the City and Guilds of London Institute in the three subjects, Breading, Flour Confectionery and Bakery Science:

1st Class passes in the three subjects—£12.
1st Class passes in two subjects and 2nd Class pass in the third—£10.
1st Class pass in one subject and 2nd Class passes in the other two—£8.
2nd Class passes in the three subjects—£6.

Two Silver Cups are presented jointly by the same three organisations for Confectionery Decoration Classes. One is the Intermediate Confectionery Decoration Cup, confined to competition among apprentices, and the second is the Advanced Confectionery Decoration Cup for competition among apprentices and journeymen.

Messrs. John F. Renshaw & Co. (Ireland), Ltd., present a Silver Cup for competition among apprentices of the Part-time Day Release Course. Prizes of 5 guineas, 3 guineas and 2 guineas are awarded to the students who obtain 1st, 2nd and 3rd places in this competition.

**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.

**ELECTRONICS FOR ELECTRICIANS**

The Electrical Trades Union of Ireland offers prizes to a total value of £10 for award to members who secure 1st, 2nd and 3rd Place in the Certificate Examination set at the end of the Course.