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Prospectus: Kevin Street

Kevin Street College

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1969

## College of Technology, Kevin Street : Prospectus 1969-1970

City of Dublin Vocational Education Committee

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**City of Dublin Vocational  
Education Committee**

*Head Office:*

TOWN HALL, BALLSBRIDGE  
DUBLIN 4.

PROSPECTUS

**1969-70**

**College  
of Technology**

**Kevin Street, Dublin**

Phone: 57541-6

*Principal:*

H. de LACY, B.E., B.Sc., C.Eng., F.I.E.E.

# Calendar

- 1969—SEPTEMBER** 1 Monday - Wholtime Day Courses open for Enrolment and Day Apprentice School commences work.
- 8 Monday - Wholtime Day Courses commence work and Evening Classes open for enrolment.
- 22 Monday - Evening Classes commence work.
- OCTOBER** 15 Wednesday - Votive Mass.
- NOVEMBER** 3 Monday - All classes closed.
- DECEMBER** 8 Monday - Feast of the Immaculate Conception. All classes closed.
- 19 Friday - Final class meetings before Christmas Vacation.
- 1970—JANUARY** 7 Wednesday - All classes resume work after Christmas Vacation.
- MARCH** 17 Tuesday - Bank Holiday. College closed.
- 24 Tuesday - Final class meetings before Easter Vacation. All Evening Classes will terminate except where otherwise arranged.
- APRIL** 6 Monday - All Day Classes resume after Easter Vacation.
- MAY** 7 Thursday - Ascension Day. All classes closed.
- 28 Thursday - Feast of Corpus Christi. All classes closed.
- JUNE** 1 Monday - Bank Holiday. College closed.
- 26 Friday - Summer Term closes, except where otherwise arranged.

**THE COLLEGE IS CLOSED ON ALL BANK HOLIDAYS NOT SPECIFIED ABOVE**

CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE

**College  
of  
Technology**

**Kevin Street  
Dublin**

Prospectus 1969-70

Principal: HUGH de LACY, B.E., B.Sc., C.Eng., F.I.E.E.



# Courses

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# Staff

**Principal** Hugh de Lacy, B.E., B.Sc., C.Eng., F.I.E.E.

**Vice-Principal** George L. Latchford, B.E., B.Sc.

## DEPARTMENT OF MATHEMATICS

**Head** John M. Forde, B.E.

**Assistant Head** Thomas Ambrose, M.Sc., Ph.D.

**Staff Teachers** C. Branigan, B.E., B.A.  
P. O Gallcobhair, B.Eol., A.T.O.  
J. Jordan, M.Sc.  
D. J. McCarthy, B.Sc.  
Miss A. Murphy, B.Sc., H.Dip.Ed.  
M. V. O'Neill, B.Sc.  
M. Wallace, M.Sc.

**Part-time Teachers** Mrs. J. Bartlett, B.Sc.  
J. V. P. Bond, B.A.(Mod.), H.Dip.Ed.  
A. A. Byrne, M.Sc.  
P. Caffrey, B.E.  
M. J. Carroll, B.Sc., Ph.D.  
S. E. Comerford, B.Sc.  
E. D. Doyle, A.M.I.E.R.E.  
M. Egan, B.Sc.  
S. Gilhooley, B.E.  
L. Healy, B.E.  
G. Lynham, B.Sc.  
H. Lyons, B.Sc.  
E. J. McLaughlin, B.Sc., H.Dip.Ed.  
P. G. Macnamara, B.E.  
M. Mannion, B.Sc.  
Mrs. B. Mulcahy, M.S., H.Dip.Ed.  
S. P. O Broin, M.Sc.  
D. O'Donovan, B.Sc.  
M. Ryan, M.Sc.  
W. J. Ryder, B.Sc., H.Dip.Ed.  
P. F. Walsh  
G. Warren, Grad.I.E.E.  
J. Wood, B.Sc.



## DEPARTMENT OF PHYSICS

- Head** Vacant.
- Assistant Head and Acting Head** J. Kieran Taaffe, M.Sc., A.Inst.P., H.Dip.Ed.(Hons.).
- Staff Teachers** K. P. Culliton, F.A.O.I.  
E. Fitzsimons, B.Sc.(Hons.), Grad.Inst.P.  
J. E. Guy, M.Sc., Grad.Inst.P.  
P. Healy, B.Sc.  
A. Mion, B.Sc.  
M. Mullett, B.Sc., H.Dip.Ed.  
E. O Flaithbheartaigh, B.Eol., A.T.O.(Onr.).  
F. R. O'Neill, M.A., M.Sc., Grad.Inst.P.  
E. Williams, B.Sc.
- Part-time Teachers** T. W. Cantwell, B.Sc.(Hons.).  
T. Connolly, Final (Photo) C. & G., H.Dip.Design.  
P. A. Coughlan, M.Sc.  
D. H. Davison.  
P. J. Fleming, B.Sc.(Hons.).  
D. Hickey, B.Sc.(Hons.).  
J. P. Mulvanny, A.I.I.P.  
F. Nolan, M.Sc., H.Dip.Ed.  
C. P. O'Toole, M.Sc., A.Inst.P.  
Miss E. P. Ryan, F.B.O.A., H.D., F.S.M.U., D.Orth.  
L. B. Trundle, B.Sc.(Hons.), Grad.Inst.P.

## DEPARTMENT OF CHEMISTRY & BIOLOGY

- Head** E. J. Rothery, B.Sc., F.R.I.C., F.I.C.I., M.I.Biol.I.
- Assistant Head** W. Broderick, M.Sc., H.Dip.Ed., D.P.A., F.I.C.I., M.R.I.P.H.H.
- Staff Teachers** L. Breen, B.Sc., Dip.Chem.Tech.  
Miss F. Doherty, B.Sc., B.A.(Mod.).  
Dr. D. Nolan, L.R.C.P. & S.I., D.P.H.  
J. P. O'Donoghue, M.Sc.  
B. P. O'Keeffe, M.Sc.  
**J. Brophy, F.I.M.L.T.**  
J. D. Gray, B.Sc.(Agric.), L.I.Biol.  
R. Saunders, B.Sc.  
Miss B. A. Ryan, M.Sc.

# Staff

## Part-time

W. Brady

## Teachers

Miss A. Boland, B.Sc.

Dr. E. Bastable, M.B., B.Ch., B.A.O.

J. Corr, B.Sc.

A. Coldrick, B.Sc.

J. Cann, B.Sc., F.I.M.L.T.

J. Clinch, F.I.M.L.T.

R. A. D'Arcy, B.Sc., M.I.C.I., A.R.I.C.

A. Dunne.

E. Dempsey, F.I.M.L.T.

L. English, F.I.M.L.T.

Miss M. Hyde, B.Sc.

F. Hill, M.Sc., Ph.D., M.I.C.I., A.R.I.C.

C. Hussey, Ph.D.

B. Hickey, A.I.M.L.T.

Miss N. Horner, F.I.M.L.T.

S. Hanratty, F.I.M.L.T.

C. Keogh, F.I.M.L.T.

W. King.

M. B. Lambert, Ph.D.

Dr. M. B. Magill, L.R.C.P. & S.I.

J. Maguire.

Miss A. McLaughlin, B.Sc.

J. May.

K. M. McKinley.

C. Murphy, B.Sc.

S. O'Beirne, A.I.M.L.T.

C. Plunkett.

Miss B. Prendergast, B.Sc.

J. Ryan, B.A., F.I.M.L.T.

J. Stokes, F.I.M.L.T.

Mrs. D. Sheehan, A.I.M.L.T.

T. G. Scott, F.I.M.L.T.

B. Scully, F.I.M.L.T.

M. Schoefield, B.A., A.I.M.L.T.

Miss S. Villiers Stuart, B.A.

E. Wright.

## DEPARTMENT OF ELECTRICAL ENGINEERING

- Head** Thomas Short, M.I.E.E.
- Assistant Head** Timothy Cronin, B.E.
- Staff Teachers** J. F. Colgan, M.Sc., A.M.C.T., A.M.I.E.E.  
N. Exarchou, B.E., M.Sc., Ph.D.  
J. J. Farrell, A.M.I.E.E.  
J. Flood, B.E., M.Sc.
- Part-time Teachers** J. Downes, A.M.I.E.E.  
O. Harkin, A.M.I.E.E.

## DEPARTMENT OF TELECOMMUNICATIONS ENGINEERING

- Head** Bartholomew J. O'Connor, C.Eng., M.I.E.R.E.
- Assistant Head** Matthew Rice, C.Eng., M.I.E.R.E.
- Staff Teachers** J. Blennerhassett, P.M.G. Cert., Radar Cert.  
F. M. Brennan, M.I.E.E.  
T. Clancy, Grad.I.E.R.E.  
C. Cowley, M.I.E.E.  
M. Gara, C. & G. F.T.C.(Telecom).  
D. Harley, P.M.G. Cert., Radar Cert.  
P. Hogan, B.E.  
T. Lawless, M.S.E.R.T., C. & G.L.I. (Radio Comm.)  
J. Mahon, P.M.G. Cert., Radar Cert.  
P. Murray, M.I.E.R.E.  
T. P. O'Brien, M.I.E.R.E.  
J. O'Donnell, M.I.E.E.E., C.G.L.I.(Telecomm.)  
I. O'Reilly, B.Sc., C.Eng., M.I.E.E., H.Dip.Ed.  
J. Russell, P.M.G. Cert., Radar Cert.  
E. G. Seale, Grad. I.E.R.E.
- Part-time Teachers** W. B. Chapple  
G. Cahill, B.E.  
M. Fenton, B.E.  
T. Goggin, M.I.E.E.  
P. Harrington, M.I.E.E.  
H. Hodgins, A.M.I.E.E.  
D. Hogan, M.I.E.E.  
C. Killeen, Grad.I.E.R.E.  
C. Maher, M.I.E.E.

J. McCowen, P.M.G. Cert.  
 P. Murphy, C. & G.L.I. (Telecomm.)  
 R. O'Brien  
 K. O'Donnell, Grad.I.E.R.E.  
 C. O'Rourke, C. & G.L.I. (R.T.E.B.)  
 J. O'Rourke, P.M.G. Cert.  
 J. O'Shea, B.Sc., M.I.E.E.  
 O. Philips, C.G.L.I. (F.T.C.)  
 J. J. Woods, M.I.E.E., M.I.E.R.E.

### DEPARTMENT OF GENERAL STUDIES

**Head** Thomas A. G. Dowling, B.A., B.Comm., H.Dip.Ed.  
**Assistant Head** Miss K. Tierney, M.A.  
**Staff Teachers** Miss G. Barry, M.A.  
 Miss C. de Bhaldrathe, M.A.  
 P. Henry, M.A., A.I.S.  
 D. Madden, B.Comm., A.A.S.A.  
**Part-time Teachers** G. Daly, B.A.  
 J. Leonard, B.A., H.Dip.Ed.  
 E. J. Ginnell, B.A., H.Dip.Ed.  
 Miss T. Doran, B.A., H.Dip.Ed.  
 J. Lennon, B.A.  
 B. McLoughlin, B.A.  
 Miss E. Naylor, B.A., H.Dip.Ed.

### MECHANICAL WORKSHOPS AND DRAWING UNIT

**Teachers-in-Charge** Patrick Connell (Workshops)  
 David Naessens (Drawing)  
**Staff Teachers** B. Goulding  
 R. Hatton  
**Part-time Teachers** J. Byrne  
 J. Connell  
 H. Treacher  
 R. Kelly  
 R. Rogan  
 P. Masterson  
 P. O'Doherty

# Notices to Students

## BAKERY

**Staff Teacher** S. Anthony, F.I.B.B., Tech.Dip.C. & G.

**Part-time  
Teacher** J. Humphries

## DEPARTMENT OF ELECTRICAL INSTALLATION

**Head** Liam Trundle, F.T.C.(E.E.P.), C. & G.

**Assistant Heads** Matthew Farrell, A.M.I.E.E., F.T.C.(E.E.P.), C. & G.  
Richard Kelly, F.T.C.(E.E.P.), C. & G.

**Instructor-in-  
Charge** Ignatius Tighe  
Desmond McManus, F.T.C.(E.E.P.), C. & G.

**Staff Teachers** J. Boyle, F.T.C.(E.E.P.), C. & G., Grad.I.T.E.  
R. Byrne, F.T.C. (E.E.P.), C. & G.  
J. Cahill, A.M.I.T.E.  
P. Cosgrave  
H. Dalton, F.T.C. (E.E.P.), C. & G.  
T. Dillon, F.T.C. (E.E.P.), C. & G.  
M. Farrelly  
T. Grandison, Grad. I.T.E.  
M. Maher, Final Exam.(E.E.P.) Dept. of Ed.  
R. McCann, Final Exam.(E.E.P.) Dept. of Ed.  
G. Murphy, F.T.C.(E.E.P.), C. & G., A.M.I.T.E.  
F. O'Connell, Final Exam.(E.E.P.) Dept. of Ed.  
J. O'Donnell, F.T.C.(E.E.P.), C. & G., Grad. I.E.D.  
S. Sludds, F.T.C.(E.E.P.), C. & G.  
W. White, Grad. I.Mech.E.  
J. Nolan, Final Exam. (E.E.P.) Dept. of Ed.  
T. Colohan, Final Exam. (E.E.P.), C. & G. London

**Part-time  
Teachers** T. Mahon  
M. Hayes  
J. P. Byrne  
J. Coleman  
J. J. Connell  
N. Connolly  
D. Cooney  
P. Corcoran  
V. Duggan, A.M.I.E.E., A.M.I.C.E.I.  
P. Flynn  
H. Greenan  
D. J. Hogan, Grad., I.E.E.  
J. McGarry

G. Purcell  
M. J. Ryan  
J. Broe  
P. Ryan  
J. Cuthbert  
R. Keating  
J. McManus  
J. V. Honan  
P. J. Foley  
P. Bowen  
T. J. McGibney

### CHAPLAINS

**Catholic** Fr. P. Dunne, S.J.  
Fr. M. J. Morahan, S.J.  
Fr. T. E. O'Keeffe, S.J.  
Fr. Finian Roche, O.F.M.

**Church of Ireland** Rev. W. J. Smallhorne

### ADMINISTRATION

**Secretary/Registrar** Joseph G. Grace, B.Comm., A.I.I.S.

**Senior Clerk and Secretary to the Principal** Miss Moira O'Donovan

**Senior Clerk (Accounts)** A. A. Farrell, A.C.P.A.

**Clerical Staff** Mr. Liam Cooke  
Miss Susan Glover  
Miss Mary Ladley  
Miss Catherine McArdle  
Miss Joan McElwaine  
Miss Margaret Nicholson  
Miss Deirdre O'Donovan  
Miss Margaret Parkes

**Librarians** R. Blair  
Miss Fitzpatrick

**Maintenance Supervisor** J. Loftus



# Notices to Students

## Admission to Courses & Enrolment

1. Enrolments for courses for the session 1969/70 will not be effected before September 1st, 1969, but applications for admission should be made before that date if possible.
2. In the session 1969/70 the latest date for admission of students to classes commencing in the first term is October 17th, 1969. Only in exceptional circumstances will applicants be admitted after that date.
3. Before acceptance of an application for admission to classes or courses, the applicant must attend in person for interview and the College must be satisfied as to his ability to benefit from the proposed classes or courses. Approval in this respect must be endorsed on the enrolment form by the Principal, Vice-Principal, appropriate Head of Department or the teacher designated for the purpose. The College normally requires an applicant to submit to and pass an entrance test and/or a suitability test before admitting him to any class or course.
4. Fees must be paid in full on enrolment. Only in special circumstances will payment by term be permitted. Students whose fees are to be paid by their employers should obtain from the College Office a guarantee form for signature by their employer and this must be presented before enrolment can be completed.
5. The sole proof of enrolment in any class or course in the College is the Official Receipt for the class or course fees paid. The Official Receipt must be shown to the class teacher on first attendance at each class of the course. Teachers are authorised to refuse admission to classes of students who do not show their Official Receipt.
6. Fees are not refundable except where a class or course does not form.
7. On first enrolment all new students will be issued with an Identity Card. For this purpose and for the College records students must provide, at their own expense, two copies of a recent photograph (not returnable) of passport type and size. Students who were enrolled in the College in Session 1967/68 or 1968/69 must present the Identity Card previously issued to them for re-endorsement for the new session. Where Identity Cards have been lost or are no longer usable, two copies of a recent photograph must again be provided as in the case of first enrolment. The Identity Card is the property of the College and may be demanded by the College or its officers at any time. Students are therefore required to carry their Identity Cards with them while in the College or whenever they may be required to identify themselves as students of the College.

8. Change of address or place of employment should be reported to the College Office immediately.

9. The Vocational Education Committee may change any or all of the syllabus, the day and time of any class and may cancel classes where the enrolment or attendance is considered inadequate. If for some urgent reason a teacher cannot attend, classes may be cancelled without notice.

10. No exchange of classes may be made after enrolment without the written consent of the Principal on the recommendation of the Head of Department.

**Attendance,  
etc., at  
Classes and  
Courses**

1. The Vocational Education Committee may expel any student without refund of fees, for irregular or unpunctual attendance or for any other reason which, in the opinion of the College Council, justifies expulsion. Three successive absences from any class may lead to suspension from the entire course, unless a satisfactory written explanation is submitted to the Principal.

2. Students must provide themselves with such books, instruments and equipment (including special clothing) as their classes may, in the opinion of the College, require. In particular, protective clothing must be worn by all students using the Chemistry or Biology Laboratories or the College Workshops.

3. Students are required to keep such notebooks and records books, and to undertake and submit regularly such homework as may be prescribed by members of the teaching staff. Unreasonable failure in this respect may lead to transfer to a lower grade or expulsion.

**Examinations**

1. Students preparing for examinations of external bodies are strongly advised to acquaint themselves with the current Regulations of these bodies. Insofar as it is possible the College will advise and assist students regarding the procedure they should adopt in respect of the bodies with which they are concerned.

2. The College is a recognised centre for many external examinations, including the General Certificate of Education. Where students are in doubt regarding examination arrangements they should consult the appropriate Head of Department or the College Secretary/Registrar.

3. Internal examinations may be set by the College at the end of any year, or at any other point of any course, whether or not external examinations are undertaken at the same point.

4. Progress from one year of a course to the next will be permitted only to students whom the College deems to have satisfactorily completed the earlier year and passed the required external and/or internal examinations.



5. Students' applications to sit external examinations will be endorsed by the College, and permission to sit College internal examinations will be given, only where the student has attended and worked satisfactorily on the course leading to the examination concerned.

**General**

1. Students must at all times obey the lawful instructions of teachers and other members of the College staff. Misconduct in the College or its grounds may lead to suspension or expulsion. All teachers are authorised to enforce immediate disciplinary measures in respect of students whom they find violating the regulations of the College or otherwise misconducting themselves.
2. Students are liable for the cost of repair or replacement of College property damaged by them.
3. Students are not permitted to smoke in the College Class-rooms, Laboratories, Lecture theatres, workshops, library, gymnasium, swimming pool or changing rooms.
4. Students are not permitted to bring overcoats, etc., into the College classrooms, laboratories, lecture theatres, workshops, gymnasium or library. Locker accommodation is available for a considerable number of students on payment of a fee of 5/- per session. This includes a deposit of 2/-, returnable only if the locker key is surrendered within seven days of the expiry of the period for which the locker has been granted.
5. Parking of pedal and motor cycles in the space provided in the College grounds is normally permitted on application. Except with the special permission of the Principal, students are not permitted to bring cars into the College grounds.
6. Students are permitted to use the facilities of the College and particularly of the Gymnasium and Swimming Pool, only on the understanding that they do so at their own risk.
7. Though all reasonable care is taken, the College accepts no liability for student property lost, stolen or damaged on the College premises or grounds.

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, which are displayed in the College.

**Scholarships & Prizes**

Certain scholarships and prizes may be awarded on the results of some examinations associated with courses in the College, and information on them may be obtained from the College Secretary/Registrar.

# Courses in Science and Related Subjects

## B.Sc. (GENERAL) DEGREE

Ref.: WSD

A whole-time course for the External B.Sc. Degree Examinations of London University, particularly for successful students of the Advanced Science Course WSI (page 17), who wish to continue their studies. A limited number of subject options will be provided to cater for the special objectives of students. In particular Pedagogics will be offered for those who wish to make Science teaching their career, and the course will be especially suited to this purpose.

This Course is recognised for the purposes of the Local Authorities' Higher Education Grants Scheme.

<b>Course Duration</b>	Three years : five days per week for each academic year.
<b>Minimum Qualifications for Admission</b>	Passes in the General Certificate of Education Examinations in : Mathematics at Advanced Level, Physics at Advanced Level, Chemistry at Advanced Level and English at Ordinary Level. In certain circumstances two "A" Level and three "O" Level passes may be accepted.
<b>Course Details</b>	Students may choose one of the following subject groups for major study : (a) Physics and Mathematics (including Applied Mathematics or Statistics), (b) Chemistry and Mathematics (including Applied Mathematics or Statistics). (c) Physics and Chemistry. The first year of the course will include basic studies for these final year options together with Philosophy and General Studies
<b>Examinations</b>	At the end of the first year students will take the B.Sc. Degree Part I examinations of London University and at the end of the third year the Part II (Final) examinations in the subjects chosen. Internal examinations may be set by the College at the end of the second year. Students are advised to acquaint themselves with the Regulations of London University regarding the External B.Sc. (General) Degree.
<b>Course Fee</b>	£50 per academic year.
<b>Department in Charge</b>	Chemistry & Biology.

## B.SC. (GENERAL) DEGREE

Ref.: PSD

A part-time course for the External B.Sc. Degree Examinations of London University, for students normally in employment.

<b>Course Duration</b>	Five years. One full day (or two half days), and three evenings per week during each academic year.
<b>Minimum Qualifications for Admission</b>	As for the wholetime B.Sc. (General) Degree Course, WSD (page 16). In addition the College must be satisfied that the applicant's employment is such as will supplement his course studies with relevant practical experience.
<b>Course Details</b>	A choice of subject groups similar to those on the wholetime course WSD will be offered.
<b>Examinations</b>	The B.Sc. Part I and Part II (Final) examinations of London University are taken at the end of the second and fifth years, respectively. Internal examinations may be set out by the College at the end of the first, third and fourth years.
<b>Fee</b>	Part I Course : £10 per academic year. Part II Course : £15 per academic year.
<b>Department in Charge</b>	Chemistry & Biology.

## ADVANCED SCIENCE COURSES

Ref.: Wholetime—WSI;  
Part-time—PSI;  
Evening—S3.2 & S3.3

These courses provide education in science to the Advanced Level of the General Certificate of Education, particularly for students who wish to proceed to higher studies in science.

<b>Course Duration</b>	Wholetime : WSI—Five days per week for one academic year. Part-time : PSI—One full day and three evenings per week for one academic year. Evening : S3.2 & S3.3—Two years, three evenings per week.
<b>Minimum Qualifications for Admission</b>	The Leaving Certificate with Honours in Mathematics, Physics and English, or the General Certificate of Education at Ordinary Level (Grades A, B or C) in Additional Mathematics, Physics, English Language and one other subject; or an equivalent standard acceptable to the College. Students electing to study subject groups involving Chemistry and/or Biology should have attained the same standard in the subject(s) as indicated above for Physics.



# Courses in Science and Related Subjects

**Courses** Wholetime : WSI—Students must choose one of the following subject groups.

Group 1 : Physics, Chemistry, Mathematics.

Group 2 : Mathematics, Applied Mathematics, Physics.

Group 3 : Physics, Chemistry, Biology.

In addition to these subjects, Philosophy and General Studies are also provided.

Part-time : PSI—Classes for all the subjects in the above Groups will be provided, but Philosophy and General Studies will not be offered.

Evening S3.2 & S3.3—Only Group 1 & 2 subjects are provided.

**Examinations** The General Certificate of Education examination at Advanced Level in the subjects of the Group. Internal examinations may be set by the College at the end of the first year of the evening courses. S3.2 students may also take portion of the Advanced Level examinations in Mathematics & Applied Mathematics at the end of the first year of S3.2.

**Fees** Wholetime : WSI—£50 per academic year.

Part-time : PSI—£10 per academic year.

Evening : S3.2 & S3.3—£7 10s. per academic year.

**Department in Charge** Chemistry & Biology.

## GRADUATESHIP OF THE INSTITUTE OF PHYSICS

Ref.: PSIP

A part-time course for the Graduateship examinations for those seeking Membership of the Institute of Physics, London. Graduateship of the Institute of Physics is recognised as equivalent to an honours degree in physics.

**Course Duration** Two years. One full day and two evenings per week.

**Minimum Qualifications for Admission** A general B.Sc. degree in Physics or a suitable HNC in Applied Physics or equivalent.

**Course Details** The subjects offered in the session 1969-70 are Physics and Electronics.

**Examinations** The Graduateship examinations are taken at the end of the second year. Internal examinations may be set by the College at the end of the first year. Students are advised to make themselves familiar with the regulations of the Institute.

**Fee** £15 per academic year.

**Department in Charge** Physics.

### TECHNICIANS' DIPLOMA COURSE IN APPLIED SCIENCE

Ref.: WAS

This course is designed for students who are seeking a career in industrial laboratories, including those in the food industry.

**Course Duration** Three years' full-time day.

**Qualifications for Admission** Leaving Certificate with passes in Mathematics, English and one Science subject.

**Course** In the first and second years, the basic sciences will be emphasised, i.e., Physics, Chemistry, Mathematics and Biology. General Studies and Applied Topics, e.g., Electronics and Process Engineering will also be included. In the third year, subject to adequate demand, the following options will be offered :

Applied Chemistry

Applied Biology (including Food Science)

Applied Physics

**Vacation Work** Students will be expected to undertake vacation work for at least one month in approved industries.

**Examinations** The College sets its own examination for the award of the Diploma.

**Fee** £30.

**Department in Charge** Chemistry and Biology.

## SCIENCE LABORATORY TECHNICIANS' COURSE

Ref.: PSL

A part-time course for assistants and trainee technicians in laboratories in industry, research institutes, educational establishments, etc. The course is designed to enable students to take Science Laboratory Technicians' Certificates of the City & Guilds of London Institute. Success in the Ordinary Certificate examination qualifies for Ordinary Membership of the Institute of Science Technology and holders of the Advanced Certificate may apply for Associate Membership.

**Course Duration** Five years: one full day (or two half-days) and two evenings per week.

**Minimum Qualifications for Admission** Applicants should be at least 16 years of age and have the Intermediate Certificate or the Group Certificate in approved subjects. They must also be in appropriate employment in approved laboratories. Applicants with passes in certain subjects in the Leaving Certificate examinations may be exempted from some or all of the first year of the course.

**Course** 1st year: English, Mathematics, Physics, Chemistry, Glassblowing (1st term), Metalwork (2nd & 3rd terms), Drawing.

2nd year: English, Mathematics, Physics, Chemistry (1st term), Electricity (2nd & 3rd terms), Drawing (1st term), Biology (2nd & 3rd terms), Metalwork (1st term), Woodwork & Plastics (2nd term), Glassblowing (3rd term).

3rd year: Chemistry, Physics or Biology, Metalwork (1st term), Woodwork & Plastics (2nd term), Glassblowing (3rd term).

4th & 5th years: Chemistry or Biology, Techniques, Laboratory Organisation, Social Science & General Studies.

**Examinations** The examinations of the City & Guilds of London Institute for the Ordinary Science Laboratory Technician's Certificate is taken at the end of the third year and the Advanced Science Laboratory Technician's Certificate at the end of the 5th year. Internal examinations may be set by the College at the ends of the other years of the course.

**Fee** £5 per academic year.

**Department in Charge** Chemistry & Biology.

## GLASSBLOWING

Ref.: G.1

A course for persons in employment in laboratories who require instruction and practice in glassblowing techniques.

**Course Duration** One year : one evening per week.

**Fee** £5 per academic year.

**Department in Charge** Chemistry & Biology.

## DIPLOMA IN FOOD SCIENCE

Ref.: S.6

A course for Science graduates who require special knowledge of food science. The College will award a Diploma to those who successfully complete the course and pass the examination.

**Course Duration** Two years : two evenings per week.

**Minimum** B.Sc. or equivalent in Chemistry or Biology subjects.

**Qualifications for Admission**

**Course** The course deals with the chemistry and bacteriology of foods as appropriate to research and quality control in the food processing industries. The nominal subjects of the course are Applied Chemistry and Bacteriology. Attention is paid to food legislation and codes of practice.

**Examination** The College sets its own examination for the award of the Diploma.

**Fee** £15 per academic year.

**Department in Charge** Chemistry & Biology.



## **COURSE IN PROFESSIONAL PHOTOGRAPHY**

Ref.: PSP

A part-time course in professional photography for those employed professionally as assistant or trainee photographers.

- Course Duration** Three years : one day, and two evenings per week.
- Admission Requirements** Prospective students must be in appropriate employment and have a standard of education corresponding to the Leaving Certificate, or the General Certificate of Education in five subjects, including English at "O" Level. Those interested in photography as a hobby only are not eligible for admission.
- Course** The course is modelled on the syllabuses of the City & Guilds of London Institute Examinations for the Certificate in General Photography. The basic sciences of Mathematics, Physics and Chemistry are included as well as General Photographic Theory and Practice, including Studio and Colour Work. The course will also include General Studies.
- Examinations** The examination for the Certificate in General Photography of the City & Guilds of London Institute is taken at the end of the course.
- Fee** £30 per academic year.
- Department in Charge** Physics.

## **COURSES FOR MEDICAL LABORATORY TECHNICIANS**

Ref. : Wholetime WML  
Evening S.5

These courses provide education in the appropriate Sciences and Technology for those seeking a career as Technicians in Medical or Veterinary Laboratories. The Courses are designed to enable students ultimately to become Members of the Institute of Medical Laboratory Technology. The evening course S.5 is being discontinued and enrolments will be accepted for fourth to seventh years only.

- Course Duration** Wholetime : WML, three years—five days per week for the full academic session in the first year; in the second and third years students attend full-time for approximately six weeks in each year.
- Evening : S.5—seven years.



**Minimum Qualifications for Admission** Matriculation, Leaving Certificate, or the General Certificate of Education with passes in English, Mathematics and an approved science subject, preferably Physics or Chemistry.

All candidates must pass a General Suitability Test before they may be admitted.

In addition to the above those seeking admission to the Whole-time 2nd and 3rd year must be in appropriate employment in an approved medical or veterinary laboratory.

**Courses** Wholetime WML :

1st year : Mathematics, Physics, Chemistry, Biology, Laboratory Techniques, Ethics, General Studies.

2nd and 3rd years : Medical Techniques\*, Chemistry, Biology, Ethics.

\* Includes Histopathology, Haematology, Blood Transfusion, etc.

Evening, S.5 (all classes are conducted in various Medical Laboratories in the city with the co-operation of the authorities concerned) :

4th to 7th years : Bacteriology, Haematology, Blood Transfusion.

**Examinations** Stages 1 and 2 of the Department of Education examinations for the Intermediate Grade of the Certificate in Medical Laboratory Science are taken as follows :

Wholetime WML :

Stage 1 at end of 1st year.

Stage 2 at end of 3rd year.

Each part of the examination will be held twice a year.

Negotiations are presently taking place for the recognition of this Certificate by the Institute of Medical Laboratory Technology as exempting from its Intermediate Examination.

Students of the evening course S5 sit the Intermediate and Final Examinations of the Institute of Medical Laboratory Technology at the end of the 3rd and 7th years respectively.

**Fees** Wholetime WML : 1st year £35.

2nd and 3rd years : £10 each year.

Evening S.5 : 4th to 7th years—£10 each year.

**Department in Charge** Chemistry & Biology.

## ADVANCED COURSE IN MEDICAL LABORATORY SCIENCES

Ref.: WAML

An advanced course for students of Medical Laboratory Science who are employed in approved medical or veterinary laboratories.

**Course Duration** Two years block-release of 15 weeks duration in each year.

**Qualifications for Admission** The Certificate in Medical Laboratory Science with full credits in Physics and Mathematics. Individual applications for exemption must be made to the Secretary of the Irish National Committee for Certificates and Diplomas in Medical Laboratory Sciences, Marlborough Street, Dublin 1.

**Course** All students will attend a common course in Advanced Medical Laboratory Science, Chemistry and Biology. Short special courses will also be included for the following :

Haematology and Blood Transfusion,  
Microbiology,  
Histology,  
Clinical Chemistry.

**Examinations** At the end of the second year, students will take the Department of Education Advanced Examination in Applied Biology (Medical Laboratory Sciences).

**Fee** £15

**Department in Charge** Chemistry and Biology.

## COURSES FOR OPHTHALMIC OPTICIANS AND DISPENSING OPTICIANS Ref.: WSO

These courses provide for the education and training of Ophthalmic Opticians and Dispensing Opticians as statutorily required for entrants to the profession by the Opticians' Act, 1956. The courses are approved by Bord na Radharcmhastoiri (the Opticians' Board), which is the registration and controlling body set up under the Act, and lead to the Fellowship Diploma and Dispensing Diploma, respectively, of the Association of Ophthalmic Opticians of Ireland (F.A.O.I. and Disp. Cert. A.O.I.).

In Session 1969/70 the 1st year of the course only will be offered.

**Course Duration** For Ophthalmic Opticians: 3 years wholetime (5 days per week). Note: 6 months' practice under supervision in the profession is required before final qualification.

For Dispensing Opticians: 2 years wholetime (5 days per week). Note: 3 months' practice under supervision in the profession is required before final qualification.

**Minimum Qualifications for Admission** The Matriculation of the National University of Ireland in Irish, English, Mathematics, and three other subjects or an approved equivalent. Students must register as Associates with the Opticians' Board, 18 Fitzwilliam Square, Dublin, and with the Association of Ophthalmic Opticians of Ireland, 11 Harrington Street, Dublin.

**Course** The course is common for both Ophthalmic and Dispensing Opticians up to the end of the second year and covers:

1st Year: Mathematics, Physics, Chemistry, Biology, Anatomy and Physiology, Workshop Practice.

2nd Year: Light and Optical Instruments, Geometrical Optics, Anatomy and Physiology, Physiological Optics, Optometry, Optical Dispensing, Ethics and Law.

The third year of the course for Ophthalmic Opticians covers: Optometry, Physiological Optics, Abnormal Conditions, Orthoptics, Ophthalmic Instruments, Environmental Optics.

In addition, all years include General Studies and Social Science.

**Examinations** For **Ophthalmic Opticians**: The First Professional examination is taken at the end of the second year; Parts I and II of the Second Professional examination are taken at the end of the third year and at the end of the period of supervised practice, respectively.

For **Dispensing Opticians**: Part I of the Professional Examination at the end of the second year, and Part II at the end of the period of supervised practice.

In each case internal examinations are set by the College at the end of the first year.

**Fee** £50 per academic year.

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

### **DENTAL CRAFTSMAN'S COURSE**

Ref.: PSDC

A part-time course for apprentices employed in dental laboratories. By co-operation with the Board of Governors, the classes in Dental Technology are held in the Dental Hospital.

**Course Duration** Five years: one half-day and two evenings per week.

**Admission Requirements** Applicants must be employed in approved dental laboratories and should have the Intermediate or Group Certificate in approved subjects.

**Course** 1st year: English, Science, Dental Theory and Drawing, Dental Technology.

2nd year: Science, Dental Theory, Dental Technology.

3rd to 5th years: Organic Chemistry, Electrotechnology, Dental Theory, Dental Technology.

**Examinations** At the end of the second and fifth years students take the Intermediate and Final examinations, respectively, for the Dental Technician's Certificate of the City & Guilds of London Institute. Internal examinations may be set by the College at the end of other years of the course.

**Fee** £5 per academic year.

**Department in Charge** Chemistry & Biology.



# Electrical, Electronic & Engineering

## EVENING COURSES IN MATHEMATICS

The Mathematics Department provides the following series of courses for those who wish to improve their mathematical knowledge, particularly in relation to the fields of application indicated.

### General Admission Requirements

Admission to any stage of these courses depends on the applicant's knowledge of the material covered in earlier stages and each application is individually assessed on its merits. The Mathematics Department will gladly advise applicants regarding the course and stage most appropriate for their purposes. Applicants may be required to take an admission test.

### A. MATHEMATICS FOR ENGINEERING PRACTICE AND TRADES

Ref.: M.1

A Course in Practical Mathematics.

#### Course Duration Examinations

Four years : One evening (2 hours) per week.

The Elementary Technological Certificate examination of the Department of Education at the end of the second year; the Intermediate examination at the end of the fourth year.

Fee £4 per academic year.

### B. MATHEMATICS FOR TELECOMMUNICATIONS

Ref.: M.2

#### Course Duration Examinations

Four years : One evening per week (1½ hours per week for first two years; 2½ hours per week in third and fourth years).

City & Guilds of London Institute Telecommunication Technicians' Course examinations in Practical Mathematics at the end of the first year and in Mathematics A, B, and C at end of second, third and fourth years, respectively.

Fee £4 per academic year.

### C. MATHEMATICS FOR ENGINEERING

Ref.: M.3

#### Course Duration Examinations

Four years : One evening per week (1½ hours in first and second years; 2 hours in third year; 3 hours in fourth year).

The Advanced Technological Certificate examination in Mathematics of the Department of Education at the end of the second year and the Higher Technological Certificate examination in Mathematics at the end of the fourth year.

Fee £5 per academic year.

### D. MATHEMATICS FOR SCIENCE

Ref.: M.4

A course covering Mathematics from G.C.E. "O" Level to Part II B.Sc. Degree (External) of University of London.

**Course Duration** Seven years. First three years: two evenings ( $1\frac{1}{2}$  hours each) per week.

Last four years: one evening (3 hours) per week.

**Examinations** University of London examinations:

G.C.E. "O" Level in Additional Mathematics at end of first year;  
G.C.E. "A" Level Mathematics (Papers I and III) at end of second year;

G.C.E. "A" Level Pure Mathematics at end of third year;

B.Sc. Degree Part I Mathematics at end of fifth year;

B.Sc. Degree Part II Mathematics at end of seventh year.

**Fee** £5 per academic year.

### E. APPLIED MATHEMATICS

Ref.: M.5

**Course Duration** Two years: first year two evenings ( $1\frac{1}{2}$  hours each) per week. Second year: one evening (3 hours) per week.

**Examinations** G.C.E. "O" Level in Additional Mathematics (Paper III) at end of first year;

"A" Level Applied Mathematics at end of second year.

**Fee** £5 per academic year.

### F. STATISTICS

Ref.: M.6

**Course Duration** Three years: one evening (3 hours) per week.

**Fee** £5 per academic year.

# Electrical, Electronic & Telecommunications Engineering & Related Courses

## DIPLOMA COURSE IN ELECTRICAL ENGINEERING

Ref.: S.E.E.

A whole-time course leading to a Diploma in Electrical Engineering for those wishing to enter the Electrical Engineering profession.

This Course is recognised for the purposes of the Local Authorities' Higher Education Grants Scheme.

**Course Duration** Four years : 5 days per week.

**Minimum Qualifications for Entry** The Leaving Certificate of the Department of Education with either :

- (a) (i) Honours Mathematics,
- (ii) Honours Physics.
- (iii) Passes in three other subjects.

or

- (b) (i) Honours in Mathematics,
- (ii) Pass in the Honours Paper in Physics.
- (iii) Honours in one other subject.
- (iv) Passes in two other subjects.

Other certificates or qualifications presented, which are considered by the College to be equivalent to those above, may be accepted.

**Course** The first and second years provide graded instruction in the Basic Sciences, in Engineering Materials and Workshop Techniques, Drawing and Economics and (in the second year) in Field and Circuit Theory, Machines and Utilisation and Electronics. The third and fourth years will further develop these technical subjects and also cover Controls, Telecommunications and Design and Manufacture. The standard of the final year will not be less than that required by the Council of Engineering Institutions Part 2 Syllabuses in the appropriate subjects. At the end of each of the first three years of the course students are required to undertake approved vacation work with engineering firms to acquire practical engineering training in industry. The College will as far as possible assist students in obtaining such vacation work.



**Examinations** Examinations will be set by the College at the end of each year of the Course.

**Fee** £50 per academic year.

**Department in Charge** Electrical Engineering.

### **TECHNICIAN ENGINEERING DIPLOMA COURSE— ELECTRICAL ENGINEERING** Ref.: WEET

A wholetime course leading to the Technician Engineering Diploma for those who wish to become technicians in the field of Electrical Engineering.

**Course Duration** Three years : five days per week.

**Minimum Qualifications for Admission** The Leaving Certificate, or approved equivalent with English and Mathematics and Physics as essential subjects.

**Course** The first year of the course will cover Mathematics, Physics, Electricity, Drawing, Materials and Processes and General Studies. Later years of the course will deal with Electrical equipment, machines, materials and techniques together with appropriate instruction in the background sciences and industrial practice.

**Examinations** Negotiations have been initiated with the Institution of Civil Engineers of Ireland for the recognition of this Diploma which is based on examinations set by the College. Final arrangements, together with such external examinations as may be decided will be announced in due course.

**Fee** £30 per academic year.

**Department in Charge** Electrical Engineering

### **ELECTRICAL TECHNICIANS' COURSE** Ref.: SET

A block-release course for trainee technicians in the electrical industry.

**Course Duration** Four years : 15-17 weeks' full-time attendance each academic year.

**Admission Requirements** Prospective students must show evidence of a knowledge of Mathematics and Physics to at least Leaving Certificate level. In addition they must be employed as apprentices or trainee technicians in the electrical industry and must pass a suitability test.



**Course** The first and second years include Mathematics, Physics, Mechanics, Electricity, Electronics, Drawing, Properties of Materials and General Studies.

The final years include Generation, Transmission and Utilisation of Electrical Energy, Electrical Machines, Electronics and Electrical Measurements.

**Examinations** The examinations in Electrical Engineering Practice of the Department of Education and of the City & Guilds of London Institute. Internal Examinations may also be set by the College.

**Fee** £15 per academic year.

**Department in Charge** Electrical Engineering

### **ELECTRICAL TECHNICIANS' COURSE** Ref.: T1.5/6/7

An evening course preparing students for the final examinations in Electrical Engineering Practice of the Department of Education and the City & Guilds of London Institute.

**Course Duration** Three years : three evenings per week.

**Admission Requirements** Prospective students must display a satisfactory knowledge of Electricity and Mathematics. Applicants are individually assessed with regard to their suitability for the course and may be required to sit an entrance test.

**Course** 1st year : Mathematics, Electricity, Field Theory, Electrical Machines.

2nd year : Mathematics, Field and Circuit Theory, Electrical Machines, Measurements or Electronics.

3rd year : Mathematics, Field and Circuit Theory, Distribution and Utilisation, Measurements or Electronics.

**Fee** £7 10s. per academic year.

**Department in Charge** Electrical Engineering

## TECHNICIAN ENGINEERING DIPLOMA COURSE— TELECOMMUNICATIONS AND ELECTRONICS

Ref.: WRTT

A wholetime course designed to provide a broad and thorough education for students intending to pursue careers as technicians in telecommunications and electronics.

**Course Duration** Three years : five days per week.

**Minimum Qualification for Admission** Leaving Certificate, or equivalent, with Mathematics and English as essential subjects and in addition students must pass an entrance test set by the College.

**Course** 1st year : Mathematics, Applied Mathematics, Physics, Engineering Drawing, Workshop Practice, Electricity, Electronics.  
2nd year : Mathematics, Physics, Electricity, Electronics, Circuit Theory, Measurements, Radio Communication.  
3rd year : Mathematics, Physics, Electronics, Circuit Theory, Measurements, Radio Communication, Microwave Principles, Digital and Switching Principles.  
In addition the course includes General Studies and Social Science.

**Examinations** The Diploma Examination is taken at the end of the third year, together with a number of City & Guilds of London Institute Course 300 papers (Advanced Studies in Telecommunications and Electronics).

**Fee** £30 per academic year.

**Department in Charge** Telecommunications Engineering

## PART-TIME COURSE FOR TELECOMMUNICATION AND ELECTRONIC TECHNICIANS

Ref.: PRTT

A course to meet the educational needs of those employed as trainee technicians in industry and elsewhere in the field of telecommunication and electronics.

**Course Duration** Four years : 2½ days and 2 evenings per week (total 22½ hours per week).

**Minimum Qualifications for Admission** Leaving Certificate, or equivalent, with Mathematics and English as essential subjects. Prospective students must be employed as trainee technicians in the field concerned.

**Examinations** City & Guilds of London Institute examinations are taken at the end of each year of the course leading to the Final examination for the Telecommunications Technicians' Certificate at the end of the third year and the Full Technological Certificate at the end of the fourth year. Three Supplementary Studies are provided for on the course.

**Course** 1st year: Mathematics, Applied Mathematics, Physics, Electricity, Electronics, Engineering Drawing, Workshop Practice.  
2nd year: Mathematics, Physics, Electricity, Electronics, Circuit Theory, Radio Communication, Measurements.  
3rd year: Mathematics, Circuit Theory, Electronics, Radio Communication, Microwave Principles, Measurements.  
4th year: Mathematics, Circuit Theory, Electronics, Radio Communication, Digital Principles, Measurements.

**Fee** £15 per academic year.

**Department in Charge** Telecommunications Engineering

## TELECOMMUNICATION TECHNICIANS' EVENING COURSE

Ref.: R6

An evening course to prepare students for the Full Technological Certificate in Telecommunication of the City & Guilds of London Institute. Two Supplementary Studies are provided for.

**Course Duration** Five years: four evenings (12 hours) per week.

**Minimum Qualifications for Admission** The Intermediate Certificate with Mathematics and English, or the Group Certificate in approved subjects, or equivalent.

**Course** 1st year: Mathematics, Electricity, Engineering Science, Drawing.  
2nd year: Mathematics, Telecommunication Principles A, Radio & Line Transmission A or Computers A.  
3rd year: Mathematics, Telecommunication Principles B, Radio & Line Transmission B or Computers B.  
4th year: Mathematics, Telecommunication Principles C, Radio.  
5th year: Mathematics, Advanced Telecommunication Principles, Advanced Communication Radio.

**Fee** £5 per academic year.

**Department in Charge** Telecommunications Engineering



## **RADIO-ELECTRONICS TECHNICIANS' COURSE**

Ref.: WRS

The theoretical and practical content of this wholtime course is designed to provide a sound technical education for students preparing for careers as technicians in the production, testing and maintenance of radio and electronic equipment.

- Course Duration** Three years : five days per week.
- Minimum Qualifications for Admission** Leaving Certificate, or equivalent, with Mathematics and English as essential subjects. In addition, prospective students must pass an entrance test set by the College.
- Course** 1st year : Mathematics, Applied Mathematics, Physics, Electricity, Radio and Electronics, Engineering Drawing, Workshop Practice, English, Social Science.  
2nd year : Mathematics, Physics, Electricity, Electronics, Radio, Transmission, Radio Workshop, English, Social Science.  
3rd year : Mathematics, Electricity, Electronics, Radio, Television, Transmission, Measurements, Social Science.
- Examinations** The City & Guilds of London Institute Telecommunication Technicians' Final Certificate and the Final Examination of the Radio Trades' Examination Board for the Electronic Servicing Certificate.
- Fee** £25 per academic year.
- Department in Charge** Telecommunications Engineering

## **RADIO AND TELEVISION SERVICING COURSE**

Ref.: R.4

An evening course to prepare students for the Intermediate and Final examinations in Radio and Television Servicing of the Radio Trades Examination Board.

- Course Duration** Five years : three evenings (9 hours) per week.
- Minimum Qualifications for Admission** Intermediate Certificate or Group Certificate in approved subjects. An entrance selection test will be set. Prospective students must be employed in the radio trade or industry.

**Course** The first three years of the course are common with the Electronics Servicing Course, R5 below and include Mathematics, Electricity, Engineering Science, Drawing, and Radio Electronics. The fourth and fifth years include instruction on Sound, Radio and Television Equipment.

**Examinations** At the end of the third year students sit for the Intermediate Written and Practical examinations of the Radio Trades Examination Board. The Final Written and Practical examinations are taken at the end of the fifth year. Internal examinations will be set by the College at the end of the other years of the course.

**Fee** 1st, 2nd and 3rd years : £5 per academic year.  
4th and 5th years : £6 per academic year.

**Department in Charge** Telecommunications Engineering

## ELECTRONICS SERVICING COURSE

Ref.: R.5

An evening course for the Intermediate and Final examinations of the Radio Trades Examination Board in Electronics Servicing.

**Course Duration** Five years : three evenings (9 hours) per week.

**Minimum Qualifications for Admission** Intermediate or Day Group Certificate in approved subjects. An entrance selection test will be held.

**Course** The first three years are common with the Radio and Television Servicing Course, R.4 (page 37). The fourth and fifth years give instruction in Instruments and Measurements, and Electronics and Control.

**Examinations** At the end of the third and fifth years students take the Intermediate and Final (Written and Practical) examinations, respectively, of the Radio Trades Examination Board in Electronics Servicing.

**Fee** 1st, 2nd and 3rd years : £5 per academic year.  
4th and 5th years : £6 per academic year.

**Department in Charge** Telecommunications Engineering

## MARINE RADAR MAINTENANCE CERTIFICATE COURSE

Ref.: WRR

This full-time course is designed to satisfy fully the latest requirements of the syllabus of the Board of Trade for the Marine Radar Maintenance Certificate, and it provides comprehensive coverage of the operation and maintenance of all types of Marine Radar equipment. Two courses are conducted each year, one commencing in September and the other commencing in February.

**Course Duration** Sixteen weeks : five days per week.

**Admission Requirements** Prospective students are required to hold the P.M.G. First or Second Class Certificate of Proficiency in Radiotelegraphy, or show evidence of having an equivalent standard of knowledge in Electricity and Radio Communication.

**Course** The course provides instruction and practice in Electronics and Radar.

**Fee** £25 per course.

**Department in Charge** Telecommunications Engineering

## MARINE RADIO-ELECTRONICS OFFICERS' COURSE

Ref.: WRO

This whole-time course prepares students for the Certificate of Proficiency Examination in Radiotelegraphy and Telephony conducted by the Department of Posts and Telegraphs. This Certificate is required for employment as a Radio Officer in the international mercantile marine services. In addition the course covers the requirements of the Telecommunications Technicians' Certificate Examinations (Intermediate) of the City & Guilds of London Institute and students are required to sit these examinations.

**Course Duration** Two years : five days per week and one evening per week in the first year.

**Minimum Qualifications for Admission** All applicants will have the Leaving Certificate or equivalent. Applicants will be required to sit an entrance test.



**Course** The course includes Mathematics, Engineering Science, Electricity, Electronics, Radio Communication and Social Science. In addition students are required to attend classes in Typewriting on one evening per week during the first year. These classes are held in the College of Commerce, Rathmines.

**Fee** £45 per year. £15 per term.

**Department in Charge** Telecommunications Engineering

### MARINE RADIO OFFICERS' CERTIFICATE COURSE

Ref.: R.3

This evening course is designed to cover the syllabus for the Certificate of Proficiency in Radiotelegraphy of the Department of Posts & Telegraphs. This is the required qualification for Radio Officers in the Mercantile Marine services.

**Course Duration** Three years : four evenings (12 hours) per week,

**Minimum Qualifications for Admission** Intermediate Certificate or Group Certificate in approved subjects or an acceptable equivalent. Applicants will be required to sit an entrance test.

**Course** Technical Electricity, Radio Communication, Marine Radio and Morse.

**Fee** £15 per academic year.

**Department in Charge** Telecommunications Engineering

### POST OFFICE ENGINEERING TECHNICIANS' COURSE

Ref.: SRPO

A block-release course conducted by arrangement with the Department of Posts & Telegraphs providing technical education for the technician trainees of that Department. The scheme has the co-operation of the Irish Post Office Engineering Union.

**Course Duration** Three academic years: 10-15 weeks full time (32½ hours per week) in each academic year.

**Admission Requirements** The course is confined to Technician Trainees of the Department of Posts & Telegraphs.

**Course** The course provides instruction in Irish, English, Mathematics, Physics, Electricity Drawing, Electronics and Religious Instruction. Between the block-release periods of attendance in the College the instruction is supplemented by a correspondence course extending over approximately 30 weeks.

**Fee** £10 per academic year. Trainees from areas outside Dublin City are admitted under special fee arrangements with the Vocational Education Committee of the area concerned.

**Department in Charge** Telecommunications Engineering

### **TECHNICAL CERTIFICATE COURSE FOR POST OFFICE ENGINEERING EMPLOYEES** Ref.: R.1

This evening course prepares employees of the Engineering Branch of the Department of Posts & Telegraphs and others in similar industrial employment for the appropriate Technical Certificate Examinations of the Department of Education.

**Course Duration** Four years : Three evenings per week.

**Minimum Qualifications for Admission** Intermediate Certificate or Group Certificate in approved subjects.

**Course** The course provides graded instruction in Mathematics, Engineering Science, Electricity, Telecommunications, Electronics, and Radio Communication.

**Fee** £5 per academic year.

**Department in Charge** Telecommunications Engineering

### **TECHNICAL CERTIFICATE COURSE FOR POST OFFICE EMPLOYEES (FACTORY MECHANICS)** Ref.: R.2

This evening course is identical to the previous course for Post Office Engineering Employees, R.1 above, with the exception that an additional class of 2½ hours per week (i.e. an additional evening per week) in Telephone Repairs is provided in the 2nd and 3rd years, to enable students to take the Department of Education Examination in Telephone Repairs.

**Fee** £5 per academic year.

**Department in Charge** Telecommunications Engineering



# Courses for Apprentices & Craftsmen

## ELECTRICAL HOUSECRAFT

Ref.: PEH

A part-time course primarily for lady demonstrators of domestic or institutional electrical appliances.

**Course Duration** One year (October-May), one or two afternoons per week as arranged.

**Admission Requirements** Leaving Certificate or approved qualifications in Domestic Science. Applicants must be employed as trainee demonstrators of electrical appliances or be attending courses in Hotel & Catering subjects in Institutional Management.

**Course and Examinations** The course is designed to enable students to take the Electrical Housecraft Certificate Examination of the Electrical Association for Women, London

**Fee** £10 per course.

**Department in Charge** Electrical Installation

# Courses for Apprentices & Craftsmen

## ELECTRICAL INSTALLATION WORK

Ref.: Block-Release SESB

Day-Release PEI

These courses provide full technical education for apprentice electricians in their first four years of apprenticeship.

**Course Duration** Four years, Block Release, SESB : one term (i.e. 11 weeks of 32½ hours) per year of the course.

Day Release, PEI : one day and three evenings per week. Some fourth-year students attend on one additional day per week. A fifth-year course of further study may be provided for suitable candidates.

**Admission Requirements** Specified subjects of the Group Certificate or Intermediate Certificate examinations of the Department of Education. Prospective students must be apprentices to the electrical trade.

**Course** The courses are based on the relevant examination syllabuses of the Department of Education and the City & Guilds of London Institute, and include Mathematics, Engineering Science, Drawing, Electricity, Electrical Installation Theory and Practice, Testing, General Studies and Social Science. Classes in Metalwork, Cable Jointing, etc., are provided for certain groups.

**Examinations** The Trade and Technical Examinations of the Department of Education and of the City & Guilds of London Institute.

**Fees** Block Release, SESB : £10 per year of course.  
Day Release, PEI : £7 10s. per academic year.

**Department in Charge** Electrical Installation

## EVENING COURSE FOR PERSONNEL IN THE ELECTRICAL INDUSTRY

Ref.: T1.1/2/3/4

A course in Applied Electricity and related Sciences. The last two years (T1.3 & T1.4) of the course are designed to assist apprentices in preparing for the Senior Trade Certificate examination of the Department of Education and the "B" and "C" Certificate examination of the City & Guilds of London Institute.

<b>Course Duration</b>	Four years : three evenings per week.
<b>Admission Requirements</b>	Prospective students must be in employment in some branch of the electrical industry. Applicants for the first year, T1.1, may be required to sit an entrance examination and for other years of the course applicants must satisfy the College that they have an acceptable knowledge of the matter covered in the years of the course preceding that for which they apply.
<b>Course Examinations</b>	Mathematics, Electricity, and Electrical Science. The appropriate Trade and Technical examinations of the Department of Education and the City & Guilds of London Institute.
<b>Fee</b>	£5 for each of the first three years and £6 for the fourth year of the course.
<b>Department in Charge</b>	Electrical Installation

## CABLE JOINTING

Ref.: T2.1

A course for electricians or apprentice electricians who wish to become proficient in the skills required in jointing underground cables.

<b>Course Duration</b>	Two years : two evenings per week.
<b>Admission Requirements</b>	Prospective students must have passed the Junior Trade Certificate examinations of the Department of Education or have an equivalent qualification, and must satisfy the College that proficiency in Cable Jointing is required in their employment.
<b>Course</b>	Both the theory and practice of the techniques are covered.
<b>Fee</b>	£7 10s. per academic year.
<b>Department in Charge</b>	Electrical Installation

# Courses for Apprentices & Craftsmen

## COURSE FOR APPRENTICE ELECTRICIANS IN THE AIRCRAFT INDUSTRY

Ref.: SEAL

A full-time course providing for the full technical education of aircraft electricians during the first three years of apprenticeship.

**Course Duration** Three years: 35-37 weeks (32½ hours per week) each course year.

**Admission Requirements** Specified subjects in the Group Certificate or Intermediate Certificate examinations of the Department of Education. Prospective students must be apprenticed to the electrical trade in the aircraft industry.

**Course** Mathematics, Engineering Science, Drawing, Metalwork, Electricity Theory and Laboratory, Practical Installation, Aircraft Electrical Practice, General Studies, Social Science. The Course is based on the relevant examination syllabuses of the Department of Education, the Department of Transport and Power (Civil Aviation) and the City & Guilds of London Institute.

**Examinations** Trade and Technical Examinations of the Department of Education and City & Guilds of London Institute, and the Licence examinations of the Department of Transport and Power.

**Fee** £30 per academic year.

**Department in Charge** Electrical Installation

## COURSE FOR CINEMA APPRENTICES

Ref.: PRC

A part-time course providing technical education for apprentice projectionists in cinemas.

**Course Duration** Three years: five hours per week.

**Admission Requirements** Prospective students must be employed as apprentice cinema operators.

**Course** The course covers Mathematics, Science, Electricity, Light, Sound Equipment and English.

**Examinations** Examinations are set by the College.

**Fee** £5 per academic year.

**Department in Charge** Electrical Installation



## COURSE IN BAKERY PRACTICE

Ref.: PSB

A part-time course in Breadmaking and Flour Confectionery for Bakery Apprentices.

**Course Duration** Four years : one day and two evenings per week.

**Admission Requirements** Prospective students must be apprentices to the Breadmaking and Flour Confectionery Trades.

**Course** Instruction is given in Bakery Science and Bakery Practice, English and Social Science.

**Examinations** Internal examinations are set by the College. Students may also sit examinations of the City & Guilds of London Institute.

**Fee** £5 per academic year.

**Teacher-in-Charge** S. Anthony, F.I.B.B., Tech.Dip. C. & G.

## BAKERY PRACTICE (JOURNEYMEN)

Ref.: B1.1

This is a one-year evening course in Bakery Practice especially for journeymen in the Bakery Trades. Attendance is required on one evening per week.

**Fee** £5 per academic year.

## CONFECTIONERY DECORATION

Ref.: B1.2 & B1.3

This evening course comprises a one-year Intermediate course (Ref. B1.2) and a one-year Advanced course (Ref. B1.3) in Design, Icing and Piping. Attendance is required on one evening per week. Students must be employed in an appropriate bakery trade. Examinations may be taken at the end of each year.

**Fee** £5 per academic year.

# Special Courses in Engineering and Science

The College is prepared, subject to availability of accommodation and sufficient demand, to provide short courses of lectures on topics of Engineering or Scientific interest during the session 1969/70. These courses would normally be conducted in the evenings. Such courses that have been provided in previous years include :

ELECTRONICS FOR ENGINEERS (two parts, 20 lectures each).

MATHEMATICS FOR ELECTRICAL ENGINEERS (10 lectures).

ELECTRONICS FOR CHEMISTS (10 lectures).

CHROMATOGRAPHY (6 lectures).

INSTRUMENTAL ANALYSIS (8 lectures).

STATISTICS FOR ENGINEERS AND SCIENTISTS (20 lectures).

CHEMISTRY IN THE FOOD INDUSTRY (8 lectures).

INDUSTRIAL FOOD PROCESSING (10 full days).

The College would welcome suggestions for other courses of this kind, and those interested should communicate with the Principal.

# General Information

Day classes will normally be held from 9 a.m. to 12.30 p.m. and 2 p.m. to 5 p.m. each weekday except Saturday unless special arrangements are made in specific cases.

Evening Classes will normally be held from 7 p.m. to 10 p.m. except where shown otherwise.

Office Hours: 9 a.m. to 12.30 p.m. and 2 p.m. to 5 p.m., Monday to Friday, and at special periods of the year at times which will be posted on the Notice Board.

Enrolment subsequent to 17th October, 1969 may be made only on the Authority of the Principal.

Interviews with the Principal can be arranged only by appointment.

Except during enrolment periods members of the teaching staff will not be available for interviews except at times which will be indicated on application to the College Office.

For Class and Room Timetables, students should consult the College Notice Boards.

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