

1967

## College of Technology, Kevin Street : Prospectus 1967-1968

City of Dublin Vocational Education Committee

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**City of Dublin Vocational  
Education Committee**

*Head Office:*

TOWN HALL, BALLSBRIDGE,  
DUBLIN 4.

Phone: 680614

*Chief Executive Officer:*

MARTIN M. GLEESON, M.A., B.Comm.

PROSPECTUS

**1967-68**

**College  
of Technology**  
**Kevin Street, Dublin**

Phone: 57541-6

*Principal:*

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

# Calendar

- 1967—SEPTEMBER 4 Monday - Wholetime Day Courses open for Enrolment and Day Apprentice School commences work.
- 11 Monday - Wholetime Day Courses commence work and Evening Classes open for enrolment.
- 18 Monday - Evening Classes commence work.
- OCTOBER 25 Wednesday - Votive Mass.
- 27 Friday - All Day Classes closed.
- NOVEMBER 1 Wednesday - All Saints' Day. All classes closed.
- DECEMBER 8 Friday - Feast of the Immaculate Conception. All classes closed.
- 13 Wednesday - Final class meetings before Christmas Vacation.
- 1968—JANUARY 2 Tuesday - All classes resume work after Christmas Vacation.
- MARCH 18 Monday - Bank Holiday. College closed.
- APRIL 9 Tuesday - Final class meetings before Easter Vacation. All Evening Classes will terminate.
- 22 Monday - All Day Classes resume after Easter Vacation.
- MAY 23 Thursday - Ascension Day. All classes closed.
- JUNE 3 Monday - Bank Holiday. College closed.
- 13 Thursday - Feast of Corpus Christi. All classes closed.
- 28 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 1967-68**

**Chief Executive Officer: MARTIN M. GLEESON, M.A., B.Comm.**

# The College Council

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# The College Council

## CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE REPRESENTATIVES

- Members** Mr. P. Donegan 101 *Shannon Rd S. end*  
Alderman L. Corcoran  
Councillor J. McCann 115 *Surfields Rd S. end*  
Councillor M. Hopper  
Mr. S. O'Hanlon *Hurlough Gardens*  
Mr. J. Barron *117 - Eden Rd, W. Cross*
- Dublin Trade Union Council Representative** ~~To be nominated.~~  
*H. M. Avey I.T.G.W.U.*
- Industrial Representatives** Dr. A. K. Mills *Chief Chemist*  
Mr. A. Harkin *Chief Eng. ESB*  
*T. P. Hardiman RTE.*
- Officers** Mr. M. M. Gleeson, Chief Executive Officer  
Mr. D. J. O'Dwyer, Chief Accountant  
Mr. T. McCarthy, Vocational Psychologist
- College Officers** The Principal  
The Vice-Principal  
The Secretary/Registrar  
Mr. J. M. Forde

## ADVISORY COMMITTEES

The Principal and Staff Teachers acting in collaboration with:—

- Bakery** Irish Bakers', Confectioners' and Allied Workers' Union : J. Swift (Chairman), T. Harmon, P. Kane, J. Farnon, T. Goulding, P. Flanagan and J. Sweetman.  
Dublin Master Bakers' Committee : J. V. Downes, L. Kennedy and P. C. Molloy  
Guild of Irish Bakers :
- Cinema & Theatre (Projection)** Theatre and Cinema Association (Ireland) : M. Casey (Secretary), D. Tracy, P. Clarke, M. Scanlan.  
Cinema Branch I.T.G.W.U.: J. Finn, W. Needham, W. Brady, A. Collinge, E. Browne.

**Electrical Engineering** A. Harkin, M.E., M.I.E.E., M.I.Mech.E., M.I.C.E.I. (Chairman) and M. Mac Ionraic, B.E., Electricity Supply Board.  
E. J. Slowey, B.Sc., M.I.E.E. and R. J. Cloughley, A.M.I.E.E., The Institution of Electrical Engineers (Irish Branch).  
A. J. Litton, B.E., B.Sc., A.M.I.C.E.I., M.I.E.E., Department of Posts and Telegraphs.  
R. A. H. Jackson, B.E., B.Sc., A.R.C.Sc.I., A.M.I.E.E., A.M.I.C.E.I., Cumann na n-Innealtóirí.  
P. H. Greer, M.I.E.E., Unidare Ltd.  
J. A. McConnell, M.I.E.E., Messrs. Roche and McConnell.  
M. J. O'Flanagan, B.E., Chief Inspector, Department of Education.

**Dental Mechanics** G. Dart, L.D.S.I., Dental Hospital of Ireland, 20 Lincoln Place.  
Andrew Ganly, B.D.S., 45 Fitzwilliam Square.  
D. Gallivan, 22 North Frederick Street.  
James Morgan, 48 Lower Baggot Street.  
Laurence G. Mongey, 88 Kildonan Road, Finglas.  
William Phelan, An Cheard Chomhairle, 21 Fitzwilliam Square.

**Radio and Television Service** J. P. Sheehan, Department of Education.  
W. B. Peat, W. B. Peat & Co. Ltd.  
A. J. Cullen, Philips Electrical (Ireland) Ltd.  
P. A. Chadwick, R.T.V. Rentals Ltd.  
E. McFeely, Messrs. Kilroy Brothers Ltd.  
P. Armstrong, Irish Transport & General Workers' Union.  
R. Gormley, Irish Transport & General Workers' Union.  
W. Clarges, Irish Transport & General Workers' Union.  
M. Kirwan, Irish Transport & General Workers' Union.

**Medical Laboratory Technology** Dr. F. Geoghegan, Pathologist, National Maternity Hospital, Holles Street.  
Dr. P. T. Moore, Biochemist, St. Kevin's Hospital.  
Dr. J. P. O'Riordan, Medical Director, The National Blood Transfusion Association.  
Dr. P. D. J. Holland, Pathologist, Our Lady's Hospital for Sick Children.  
B. Downes, Senior Medical Laboratory Technologist, St. Kevin's Hospital.  
H. Farrell, Senior Medical Laboratory Technologist, Dr. Steevens' Hospital.

- J. Hanratty, Deputy Chief Technical Officer, National Blood Transfusion Association.
- C. Keogh, Senior Medical Laboratory Technologist, Richmond Hospital.
- Professor J. Baxter, Director Veterinary Medicine, Veterinary College, Ballsbridge.
- Dr. N. Jaswon, Pathologists' Group of the Irish Medical Assoc.
- Mr. E. J. Dempsey, Chief Technologist, Department of Pathology, St. Vincent's Hospital.
- Mr. J. A. Stokes, Chief Technician, Sir Patrick's Dun's Hospital, Lower Grand Canal Street.
- Dr. V. T. Green, Department of Health, Custom House, Dublin.

**Ophthalmic Optics** The President and two Members of Council, Association of Ophthalmic Opticians, Ireland.

**Post Office Engineering** A. J. Litton, B.E., B.Sc., A.M.I.C.E.I., M.I.E.E.; P. Sullivan and E. O'Duffy, B.E., A.M.I.E.E., Department of Posts and Telegraphs. T. Goggin and K. O'Higgins, Irish Post Office Engineering Union. M. J. O'Flanagan, B.E., Chief Inspector, Department of Education.



# 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.

**Staff Teachers** † F. Egan, B.Sc.  
‡ P. O. Gallcobhair, B.Eol., A.T.O.  
‡ J. Jordan, M.Sc.  
Miss A. Murphy, B.Sc., H.Dip.Ed.  
‡ M. Wallace, M.Sc.  
‡ J. Wood, B.Sc.

**Part-time Teachers** Mrs. J. Bartlett, B.Sc.  
P. J. Daly, B.Sc.  
E. D. Doyle, A.M.I.E.R.E.  
Miss B. Fitzpatrick, M.S., H.Dip.Ed.  
S. Gilhooly, B.E.  
L. Healy, B.E.  
G. Hughes, B.Sc.  
D. J. McCarthy, B.Sc.  
E. J. McLoughlin, B.Sc.  
P. G. Macnamara, B.E.  
M. Mannion, B.Sc.  
M. A. Moran, M.Sc.  
T. K. O'Donnell, M.Sc.  
M. V. O'Neill, B.Sc.  
G. Warren

## DEPARTMENT OF PHYSICS

**Head**, † James P. Roche, M.Sc., A.Inst.P.

**Assistant Head** ‡ Vacant.

**Staff Teachers** † K. P. Culliton, F.A.O.I.  
‡ C. Feely, B.Sc.  
‡ A. Mion, B.Sc.  
‡ B. Moynihan, B.Sc.  
‡ M. Mullett, B.Sc.  
‡ E. O'Flaherty, B.Sc.

**Part-time** J. O. Cleary, B.Sc.  
**Teachers** F. E. Fitzsimons, B.Sc.  
P. Healy, B.Sc.  
V. McBreen, B.Sc.  
E. O'Mangan, B.Sc.  
C. P. O'Toole, M.Sc., A.Inst.P.

## DEPARTMENT OF CHEMISTRY & BIOLOGY

**Head** E. J. Rothery, B.Sc., F.R.I.C., F.I.C.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. M.L.T.  
• B. P. O'Keefe, M.Sc. *Gray / Nicola Stephens*

**Part-time** W. Brady  
**Teachers** R. A. D'Arcy, B.Sc., M.I.C.I., A.R.I.C.  
J. D. Gray, B.Sc.(Agric.).  
G. Farren, B.Sc.  
Mrs. S. Dickinson, B.Sc.  
S. Hanratty, F.I.M.L.T.  
R. Gunther  
M. J. O'Doherty  
K. M. McKinley  
F. Hill, Ph.D., M.Sc., M.I.C.I., A.R.I.C.  
R. Saunders, B.Sc.  
C. Healy  
Miss A. Boland, B.Sc.

## DEPARTMENT OF ELECTRICAL ENGINEERING

**Head** - Thomas Short, M.I.E.E.

**Assistant Head** , Timothy Cronin, B.E.

**Staff Teachers** N. Exarchou, B.E., M.Sc., Ph.D.  
- J. J. Farrell, A.M.I.E.E.  
- J. Flood, B.E., M.Sc.

**Part-time** J. Downes, A.M.I.E.E.  
**Teachers** O. Harkin, A.M.I.E.E.

## DEPARTMENT OF TELECOMMUNICATIONS ENGINEERING

**Head** Bartholomew J. O'Connor, A.M.I.E.R.E., C.Eng.

**Assistant Head** Matthew Rice, Grad., I.E.R.E.

**Staff Teachers** J. Blennerhassett, P.M.G. Cert., Radar Cert.

- F. M. Brennan, A.M.I.E.E.  
✓ C. Cowley, A.M.I.E.E.  
- 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, A.M.I.E.R.E.  
- T. P. O'Brien, A.M.I.E.R.E.  
J. O'Donnell, M.I.E.E., G.G.L.I. (Telecomm.) *Spec.*  
- I. O'Reilly, B.Sc., M.I.E.E., A.Dip.Ed.  
J. Russell, P.M.G. Cert., Radar Cert.  
✓ E. G. Seale, Grad. I.E.R.E.

**Part-time  
Teachers** W. B. Chapple  
M. Fenton, B.E.

- T. Goggin  
P. Harrington, M.I.E.E.  
H. Hodgens, A.M.I.E.E.  
D. Hogan, A.M.I.E.E.  
C. Maher, A.M.I.E.E.  
J. McCowen, P.M.G. Cert.  
P. Murphy, C. & G.L.I. (Telecomm.)  
R. O'Brien  
C. O'Rourke, C. & G.L.I. (R.T.E.B.)  
J. O'Rorke, P.M.G. Cert.  
J. O'Shea, B.Sc., M.I.E.E.  
J. J. Woods, M.I.E.E., A.M.I.E.R.E.

## DEPARTMENT OF ELECTRICAL INSTALLATION

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

**Assistant Heads** Matthew Farrell, 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

**Staff Teachers**

J. Boyle  
R. Byrne  
J. Cahill  
P. Cosgrave  
H. Dalton  
T. Dillon  
M. Farrelly  
T. Grandison  
M. Maher  
R. McCann  
G. Murphy, F.T.C.(E.E.P.), C. & G.  
F. O'Connell  
J. O'Donnell  
P. O'Shea  
S. Sludds  
W. White

**Part-time  
Teachers**

T. Mahon  
M. Hayes  
J. P. Byrne  
J. Coleman  
J. J. Connell  
N. Connolly  
A. K. Jackson  
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

## DEPARTMENT OF GENERAL STUDIES

<b>Head</b>	Thomas A. G. Dowling, B.A., B.Comm., H.Dip.Ed.
<b>Staff Teacher</b>	Miss K. Tierney, M.A.
<b>Part-time Teachers</b>	Miss A. H. Broderick, B.A., H.Dip.Ed. S. McDonagh, B.A., B.Comm., D.P.A., H.Dip.Ed. R. Mulvihill, B.A. J. Lynch, B.A. E. Staunton, A.M.I.W.S. Mrs. M. Swift, B.A., H.Dip.Ed.

## MECHANICAL WORKSHOPS AND DRAWING UNIT

<b>Instructor-in-Charge</b>	Patrick Connell
<b>Staff Teachers</b>	John Daly B. Goulding R. Hatton D. Naessens
<b>Part-time Teachers</b>	J. Byrne J. Connell D. Cooney B. Dunne W. Kennedy P. Masterson P. O'Doherty

## BAKERY UNIT

<b>Staff Teacher</b>	S. Anthony, F.I.B.B., Tech.Dip.C. & G.
<b>Part-time Teacher</b>	J. Humphries

## CHAPLAINS

<b>Catholic</b>	Fr. P. Dunne, S.J. Fr. M. J. Morahan, S.J. Fr. T. E. O'Keeffe, S.J. Fr. Finian Roche, O.F.M.
<b>Church of Ireland</b>	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** A. A. Farrell, A.C.P.A.

**Clerical Staff** Miss Ita Geraghty  
Miss Susan Glover  
~~Miss Norma Keene~~  
Miss Mary Ladley  
Miss Deirdre O'Donovan  
~~Miss Jack O'Neill~~  
~~Miss Ailbhe Quinn~~

**Librarian** Vacant

**Maintenance  
Supervisor** J. Loftus



# Notices to Students

## **Admission to Courses & Enrolment**

1. Enrolments for courses for the session 1967/'68 will not be effected before September 4th, 1967, but applications for admission may be made before that date.

2. In the session 1967/'68 the latest date for admission of students to classes commencing in the first term is October 6th, 1967. 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 Teacher-in-Charge. The College may require any applicant to submit to and pass an entrance test and/or a suitability test before admitting him to any class or course.

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 enrolment all 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. 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 advised 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 Classrooms, 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

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## **B.SC. (GENERAL) DEGREE**

Ref.: WSD

A wholtime course for the External B.Sc. Degree Examinations of London University, particularly for successful students of the Advanced Science Course WSI (page 21), 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.

**Course Duration** Three years : five days per week for each academic year.

**Minimum Qualifications for Admission** 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.

**Course Details** Students may choose one of the following subject groups for major study :

- (a) Physics and Mathematics (including Statistics).
- (b) Chemistry and Mathematics (including 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.

**Examinations** 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.

**Course Fee** £50 per academic year.

**Teacher in Charge** B. P. O'Keeffe, M.Sc.

3  
3

**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.

**Course Duration** Five years. One full day (or two half days), and three evenings per week during each academic year.

**Minimum Qualifications for Admission** As for the wholetime B.Sc. (General) Degree Course, WSD (page 19). In addition the College must be satisfied that the applicant's employment is such as will supplement his course studies with relevant practical experience.

**Course Details** A choice of subject groups similar to those on the wholetime course WSD will be offered.

**Examinations** 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.

**Fee** ✓ Part I Course : £10 per academic year.  
✓ Part II Course : £15 per academic year.

**Teacher in Charge** J. P. O'Donoghue, M.Sc.

**PART II (FINAL) B.Sc. EVENING COURSE**

Ref.: S4.2

An evening course for students in employment who cannot avail of the part-time course, PSD, and who have already passed the Part I examinations for the B.Sc. (External) of the University of London. In the Session 1967/68 the second year only of the course will be offered.

**Course Duration** Three years. In Session 1967/68 the Second year only will be offered : three evenings per week.

**Minimum Qualifications for Admission** Part I of the University of London B.Sc. in the appropriate subjects.

**Course** Mathematics, Chemistry and Statistics.

**Examinations** Part II (Final) of the B.Sc. (External) of the University of London in Chemistry and Mathematics is taken at the end of the third year.

**Fee** £10 per academic year.  
**Teacher in Charge** E. J. Rothery, B.Sc., F.I.C.I., F.R.I.C.

**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 1967-68 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.

**Teacher-in-Charge** Mr. J. P. Roche, M.Sc., Grad.Inst.P.

WSI (7)

**ADVANCED SCIENCE COURSES**

Ref.: Wholtime—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.

**Course Duration** Wholtime : 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.

**Minimum Qualifications for Admission** 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** 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.

**Teachers-in-Charge** Wholetime : WSI—E. J. Rothery, B.Sc., F.I.C.I., F.R.I.C.

Part-time : PSI—W. Broderick, M.Sc., H.Dip.Ed., M.I.C.I.

Evening : S3.2 & S3.3—W. Broderick, M.Sc., H.Dip.Ed., M.I.C.I.

✓ WSS (8)  
✓ PSS (6)

### SENIOR SCIENCE COURSES

Ref.: Wholtime—WSS; Part-time—PSS;  
Evening—S3.1

These courses provide basic education in the Sciences to the standard of the Ordinary Level General Certificate of Education, particularly for those intending to proceed to higher studies in Science or Engineering in the College.

- Course** Wholtime : WSS—One year, five days per week.
- Duration** Part-time : PSS—One year; one full day (or two half days) and three evenings per week.  
Evening : S3.1—One year; four evenings per week.
- Minimum Qualifications for Admission** Wholtime : WSS—Leaving Certificate or successful completion of the Pre-Technological Course at the Technical Institute, Ringsend or equivalent. Passes are required in Mathematics, English or three other subjects.  
Part-time : PSS; and Evening S3.1 : As for the wholtime course WSS, but applicants may be admitted with good passes in the Department of Education Groups Certificate or Intermediate Certificate, Secondary Schools, provided they have been pursuing approved studies since obtaining these certificates.  
All applicants must pass a general suitability test.
- Courses** Wholtime : WSS—English, Mathematics, Physics, Chemistry, Applied Mathematics or Biology, Social Science, General Studies. (Applied Mathematics and Biology may not be taken together.)  
Part-time : PSS—English, Physics, Chemistry or Applied Mathematics, Mathematics or Biology.  
Evening : S3.1—English, Physics, Chemistry, Mathematics or Biology.
- Examinations** The General Certificate of Education examinations in the appropriate subjects.
- Teachers-in-Charge** Wholtime : WSS—E. O'Flaherty  
Part-time, PSS and Evening, S3.1 : M. Mullett
- Fees** Wholtime : WSS—£15 per academic year.  
Part-time : PSS—£7 10s. per academic year.  
Evening : S3.1—£7 10s. per academic year.



5 ✓

### PRE-UNIVERSITY COURSE IN SCIENCE

Ref.: WSU

A course providing education in the basic sciences for those intending to pursue professional studies in Science, Engineering, etc.

**Course Duration** One year : five days per week.

**Minimum Qualifications for Admission** Passes in at least four subjects of the Leaving Certificate or approved equivalent. All applicants must pass a general suitability test.

**Course** Mathematics, Physics, Chemistry, Biology and Social Science.

**Examinations** The Honours Leaving Certificate examinations.

**Fee** £35 per academic year (full course).  
£24 per academic year (for a single subject).

**Teacher in Charge** W. Broderick, M.Sc.

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

**Examinations** 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.

**Teacher-in-Charge** Miss A. Murphy, B.Sc., H.Dip.Ed.

**B. MATHEMATICS FOR TELECOMMUNICATIONS** Ref.: M.2

**Course Duration** Four years : One evening per week ( $1\frac{1}{2}$  hours per week for first two years;  $2\frac{1}{2}$  hours per week in third and fourth years).

**Examinations** 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.

**Teacher-in-Charge** E. D. Doyle, A.M.I.E.R.E.

**C. MATHEMATICS FOR ENGINEERING**

Ref.: M.3

**Course Duration** Four years : One evening per week ( $1\frac{1}{2}$  hours in first and second years; 2 hours in third year; 3 hours in fourth year).

**Examinations** 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.

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

#### 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 (1½ 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.

**Teacher-in-Charge** T. Ambrose, M.Sc.

#### E. APPLIED MATHEMATICS

Ref.: M.5

**Course Duration** Two years : first year two evenings (1½ 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.

**Teacher-in-Charge** P. O Gallchobhair, B.Eol., A.T.O.

#### F. STATISTICS

Ref.: M.6

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

**Fee** £5 per academic year.

**Teacher-in-Charge** M. Wallace, M.Sc.

✓ PSL I (6)  
 ✓ PSL II (6)  
 ✓ PSL III (4)  
 ✓ PSL IV (6)

**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 Microbiology, 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.

**Teacher-in-Charge** L. Breen, B.Sc., Dip.Chem.Tech.

**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.

**Teacher-in-Charge** W. Brady

**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 Qualifications for Admission** B.Sc. or equivalent in Chemistry or Biology subjects.

**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.

**Teacher-in-Charge** Miss F. Doherty, B.Sc., B.A.(Mod.).

**COURSE IN PROFESSIONAL PHOTOGRAPHY** Ref.: PSP

A part-time course in professional photography for those employed in the photographic trade.

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

**Admission Requirements** Prospective students must be employed in the Photographic Trade and in the case of apprentices should 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. The first year only of the course will be offered in the session 1967/68.

**Examinations** The examination for the Certificate in General Photography of the City & Guilds of London Institute.

**Fee** £30 per academic year.

**Teacher-in-Charge** J. P. Roche

✓ WSO I (8)  
✓ WSO III (8)

### 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.).

*Refers to  
admission  
every second  
year*

**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.

WML (7) ✓

### 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 no first-year enrolments will be taken.

**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 Wholetime 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.

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

2nd and 3rd years : Histopathology, Bacteriology, Haematology, Blood Transfusion, Biochemistry.

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 Applied Biology (Medical Laboratory Sciences) 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.

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



**Fees** Wholetime WML : 1st year £35.  
2nd and 3rd years : £10 each year.  
Evening S.5: 2nd and 3rd years £7 10s. each year.  
4th to 7th years : £10 each year.

**Teacher-in-Charge** Dr. D. Nolan, L.R.C.P. & S.I., D.P.H.

I - (5)

### 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.

**Teacher-in-Charge** R. Gunther

SEE I - (17) ✓

**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.

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

**Minimum Qualifications for Entry** Prospective students must have the Leaving Certificate with honours in English, Mathematics and Physics or an approved equivalent.

**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.

**Teacher-in-Charge** T. Short, M.I.E.E.

**ELECTRICAL ENGINEERING TECHNICIANS' COURSE**

Ref.: WEET

A whole-time course providing instructions 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 to the establishment of a recognised Technician's Diploma 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.

**Teacher-in-Charge** T. Short, M.I.E.E.

**ELECTRICAL TECHNICIANS' COURSE**

Ref.: SET

A block-release 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.

**Teacher-in-Charge** T. Short, M.I.E.E.

#### **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.

**Teacher-in-Charge** T. Short, M.I.E.E.

**TELECOMMUNICATION AND ELECTRONIC** Ref.: WRTT  
**TECHNICIANS' COURSE**

A wholtime 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** Various stages of the City & Guilds of London Institute examinations, leading to the Full Technological Certificate in Telecommunications and Electronics, are taken at the end of each year of the course. The course provides for four supplementary Studies.
- Fee** £30 per academic year.
- Teacher-in-Charge** F. M. Brennan, A.M.I.E.E.

**PART-TIME COURSE FOR** Ref.: PRTT  
**TELECOMMUNICATION AND**  
**ELECTRONIC TECHNICIANS**

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. Two 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.  
The fourth year will not be offered in the Session 1967/68.

**Fee** £15 per academic year.

**Teacher-in-Charge** F. M. Brennan, A.M.I.E.E.

#### **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.  
3rd year: Mathematics, Telecommunication Principles B, Radio and Line Transmission B.  
4th year: Mathematics, Telecommunication Principles C, Radio.  
5th year: Mathematics, Advanced Telecommunication Principles, Advanced Communication Radio.

**Fee** £5 per academic year.

**Teacher-in-Charge** B. J. O'Connor, A.M.I.E.R.E., C.Eng.

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

Ref.: WRS

The theoretical and practical content of this wholetime 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' Certificate "B" examinations, and the Final Examination of the Radio Trades Examination Board for the Electronic Servicing Certificate.

**Fee** £25 per academic year.

**Teacher-in-Charge** J. O'Donnell, M.I.E.E., C. & G.L.I.(Telecomm.).

## **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.
- Teacher-in-Charge** J. O'Donnell, M.I.E.E., C. & G.L.I.(Telecomm.).

### 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 38). 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.
- Teacher-in-Charge** J. O'Donnell, M.I.E.E., C. & G.L.I.(Telecomm.).



### **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.

**Teacher-in-Charge** M. J. Rice, Grad.I.E.R.E.

### **MARINE RADIO OFFICERS' COURSE**

Ref.: WRO

This wholetime 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, Physics, 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 academic year; £15 per term.

**Teacher-in-Charge** M. J. Rice, Grad. I.E.R.E.

### **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.

**Teacher-in-Charge** M. J. Rice, Grad. I.E.R.E.

### **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.
- Teacher-in-Charge** T. P. O'Brien, A.M.I.E.R.E.

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

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

This evening course is identical to the previous courses 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.
- Teacher-in-Charge** T. P. O'Brien, A.M.I.E.R.E.

## 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.

**Teacher-in-Charge** G. Murphy

## 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.

**Teacher-in-Charge** Block Release, SESB : 1st year, P. O'Shea; 2nd year, F. Dillon; 3rd year, W. White; 4th year, R. Kelly.  
Day Release, PEI : 1st year, M. Maher; 2nd year, R. Byrne; 3rd year, J. O'Donnell; 4th year, M. Farrell.

**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.

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

**Admission Requirements** 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.

**Course** Mathematics, Electricity, and Electrical Science.

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

**Fee** £5 for each of the first three years and £6 for the fourth year of the course.

**Teacher-in-Charge** R. Kelly

## 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.

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

**Admission Requirements** 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.

**Course** Both the theory and practice of the techniques are covered.

**Fee** £7 10s. per academic year.

**Teacher-in-Charge** D. McManus

## COURSE FOR APPRENTICE ELECTRICIANS IN THE AIRCRAFT INDUSTRY

Ref.: SEAL

A sandwich course providing for the full technical education of aircraft electricians during the first four years of apprenticeship.

**Course Duration** Four years : 26 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.

**Teacher-in-Charge** M. Farrell

### 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.

**Teacher-in-Charge** D. McManus

### 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 1967/'68. 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.



BAKERY (continued)

For 12 months

For 12 months

For 12 months

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**MEDICAL COURSE IN ENGINEERING AND SCIENCE**

The College of Engineering and Science is a branch of the University of Dublin. It was founded in 1825 and has since that time been a leading institution for the education of engineers and scientists. The course is designed to provide a thorough knowledge of the principles and practice of engineering and science, and to prepare students for the various professions connected with these subjects. The course is divided into three main branches: Civil Engineering, Mechanical Engineering, and Electrical Engineering. Each branch is taught by experienced lecturers and includes both theoretical and practical instruction. The students are required to attend lectures, attend practical classes, and complete a series of assignments and examinations. The course is highly regarded and has produced many distinguished engineers and scientists.

# 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 20th October, 1967, 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.