1977

College of Technology, Kevin Street : Prospectus 1977-1978

City of Dublin Vocational Education Committee

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COLLEGE OF TECHNOLOGY
KEVIN STREET DUBLIN 8
CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE

PROSPECTUS 1977-78
COLAISTE TEICNEOLAIOCHTA
### COURSES FOR APPRENTICES AND CRAFTSMEN

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</tbody>
</table>
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S. Coonan, C.G.L.I. (Photography)
Marie A. Kears, C. G.L.I. (Photography)
Gerda W. Teljéur
Frederick Walker
1977—SEPT. Thursday 1st
  Monday 5th
  Monday 14th
  Monday 27th

OCT. Wednesday 12th
  Friday 28th

NOV. Tuesday 1st

DEC. Thursday 8th
  Wednesday 21st

1978—JAN: Monday 9th

MAR. Friday 17th
  Tuesday 21st

APRIL Monday 3rd

MAY Thursday 4th
  Thursday 25th

JUNE Monday 5th
  Thursday 8th
  Friday 30th

Commencement of Session.
College Re-opens.
Wholetime Day Courses open for Enrolment.
Evening Courses open for Enrolment.
Wholetime Day Courses and Evening Courses commence.
(Except where otherwise arranged).
Votive Mass. All day classes closed.
Presentation of College Diplomas and Certificates.
Holyday. All Classes Closed.
Holyday. All Classes Closed.
Final class meetings before Christmas Vacation.
All classes resume work after Christmas Vacation.
Public Holiday. College closed.
Final Class meetings before Easter Vacation.
All Classes resume after Easter Vacation.
Holyday. All Classes Closed.
Holyday. All Classes Closed.
Public Holiday. All Classes Closed.
Holyday. All Classes Closed.
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 8

Telephone: 757541-6
755700 (Pleasants Street)

Principal: HUGH de LACY,
B.E., B.Sc., C.Eng., F.I.E.E.
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<td>Marine Radio—Electronic Officers’ Course</td>
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J. Moran
J. O’Halloran, M.Sc., M.I.E.I.
P. A. Tobin, C. & G. F.T.C.
P. Wade, C.Eng., M.I.E.R.E.

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ASSISTANT
Vacant

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Miss Gerardine McDonnell

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S. Lynch, M.Econ.Sc., M.A., B.Commm., D.P.A.
B. Miller, M.A.
Mary Ruane, M.A., H.Dip.Ed.

PART-TIME LECTURERS
Christina Albertini, M.A.
D. Carter, B.A.
Anne Clarke, B.A., H.Dip.Ed.
Jill Donoghue, M.A.
A. Downer, A.C.M.A.
Nora French, M.A. H. Dip.Ed.

Mechanical Workshops and Drawing Unit

LECTURERS-IN-CHARGE
Patrick Connell (Workshops)
David Naessens (Drawing)

STAFF LECTURERS
B. Goulding
R. Hatton

PART-TIME LECTURERS
J. Byrne
E. Oakes
J. J. Byrne
L. O’Leary
J. Connell
J. O’Reilly
P. Dunne
S. Rountree
P. Masterson
J. Todd
J. Mulligan
H. Treacher

Bakery

STAFF LECTURER
D. O’Brien, N.B.Dip.Full
Tech.Dip., C.G., (Baking), M.I.I.B.

PART-TIME LECTURERS
S. Anthony
W. Graham
R. A. D’Arcy
J. Humphries
B. Doyle
Claire McInerney

Department of Electrical Installation

ASSISTANT HEAD AND ACTING HEAD

ASSISTANT HEAD
Vacant

LECTURERS-IN-CHARGE
Ignatius Tighe
Desmond McManus, F.T.C.(E.E.P.), C & G.
Staff

DEPARTMENT SECRETARY
Mrs. Maureen Holland

STAFF LECTURERS
E. Barber, Final (E.E.P.), C.&G.
J. Boyle, T.Eng. (C.E.I.), M.I.T.E.,
F.T.C. (E.E.P.), C.&G.
E. Brady, F.T.C. (E.I.W.), C.&G.
R. Byrne, B.A., F.T.C. (E.E.P.), C.&G.,
H.Dip.Ed.
G. Caffrey, F.T.C. (E.E.P.), C.&G.
J. Cahill, T.Eng. (C.E.I.), M.I.T.E.
T. Colohan, T.Eng. (C.E.I.), M.I.T.E.,
F.T.C. (E.E.P.) and (E.I.W.), C.&G.
P. Cosgrave, F.T.C. (E.E.P.), C.&G.
H. Dalton, F.T.C. (E.E.P.), C.&G.
J. Davis, F.T.C. (E.E.P.), C.&G.
T. Dillon, B.A., F.T.C. (E.E.P.), C.&G.,
H.Dip.Ed.
M. Farrelly, Tech. (C.E.I.), M.S.E.R.T.,
C.&G.
T. Grandison, M.I.T.E., F.T.C. (E.E.P.),
C.&G.
V. Kenny, T.Eng. (C.E.I.), M.I.T.E.
S. Lyons, M.I.T.E., Final (E.E.P.), C.&G.
M. Maher, T.Eng. (C.E.I.), M.I.T.E.,
F.T.C. (E.E.P.), C.&G.
R. McCann, B.A., Final (E.E.P.), Dept. of Ed.
H.Dip.Ed.
Mr. R. McCarthy, F.T.C. (E.E.P.), C.&G.
G. Murphy, B.A., M.Ed. (Hons.),
F.T.C. (E.E.P.), C.&G., A.M.I.T.E.,
H.Dip.Ed.
(E.E.P.) C.&G.
K. O’Connell, F.T.C. (E.E.P.), C.&G.
J. O'Donnell, B.A., T.Eng. (C.E.I.), M.I.T.E.,
H.Dip.Ed.
S. Sludds, B.A., F.T.C. (E.E.P.), C.&G.,
H.Dip.Ed.

PART-TIME TEACHERS
J. Broe T. Mahon
J. Brown E. Meagher
J. Byrne T. Murphy
B. Casey F. S. O’Connell
J. Donoghue G. O’Gorman
P. Donoghue W. B. O’Neill
C. Harrington M. Roberts
G. Hartigan L. Trundle
T. Henry J. P. Walsh

Physical Education Unit

LECTURER-IN-CHARGE
S. Byrne, B.A., Dip.P.E.,
R. Bushell D. Levey
A. Byrne D. McCarthy
N. Daragh H. McNamara
J. Delaney P. Mooney
J. Donnelly P. Murphy
S. Doyle M. Nunan
R. Greenlee

Chaplains

CATHOLIC
Fr. P. Dunne, S.J.
Fr. B. Murray, S.J.
Fr. T. E. O’Keefe, S.J.

CHURCH OF IRELAND
Rev. W. J. Smallhorne

Administration

SECRETARY/REGISTRAR
Miss Moira O’Donovan

Secretary/Registrar’s Office

SENIOR CLERKS
James P. Boland, A.C.P.A.

SECRETARY TO THE PRINCIPAL
Miss Anne Carragher

SECRETARY TO THE REGISTRAR
Miss Marie Healy

CLERICAL STAFF
Miss Joan Burke
Mr. David Earley
Mr. David Hughes
Miss Philomena Kenna
Miss Brid Molloy
Mr. Lorcan O Raghallaigh
Mrs. Mary Taaffe
Mr. David Walsh

LIBRARIAN
Cáit Ní Laoithe

MAINTENANCE SUPERVISOR
H. J. Loftus
NOTICES TO STUDENTS

Students are expected to make themselves aware of the following regulations of the College.

ADMISSION TO COURSES AND ENROLMENT

1. Enrolment for courses for the session 1977/1978 will not be effected before September 5th, 1977, but applications for admission should be made before Thursday 30th, June 1977. The closing date for applications for Medical Laboratory Technicians Course is 31st May, 1977.

2. In the session 1977/78 the latest date for admission of students to classes commencing in the first term is October 1st, 1977. Only in exceptional circumstances will applicants be admitted after that date.

3. Intending students should note the statement on Entry Requirements for admission to the College on Page 15. 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/her 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 may require an applicant to submit to and pass an entrance test and/or a suitability test before admitting him/her 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 previous sessions must present the Identity Card previously issued to them for re-endorsment 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 College or whenever they may be required to identify themselves as students of the College.

Students should note that a charge of £1 will be made for replacement of Identity Cards.

8. Overseas students will be required to hold a First Division Certificate with credits in six subjects including English Language and Mathematics and approved Science Subject and must make application through their Embassy accredited to Ireland.

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

10. 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.

11. 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. Safety spectacles must be worn in all Chemistry Laboratories.

3. Students are required to keep such notebooks and record 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 suspension or expulsion.

EXAMINATIONS

1. Students preparing for examinations of external bodies are required to acquaint themselves with the current Regulations of those 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 of the University of London, The Department of Education, The City and Guilds of London Institute. Application for entry to these examinations must be made through the College Office in accordance with the closing dates as indicated on College Notice Boards. Applications after the respective closing dates will only be accepted on payment of a Late Entry Fee as stipulated by the regulations of the Examining Institute concerned. In the case of the
   (i) Department of Education examinations the late entry fee will be £1·00 per subject.
   (ii) The City and Guilds of London Institute £6.00.
   (iii) G.C.E. Examinations £10·00.
   Where students are in doubt regarding examination arrangements they should make enquiry through the Secretary/Registrar’s Office.

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. (i) Each student on a course having mandatory College examinations must make application on or before March 22nd, 1978 to sit the appropriate Summer examinations and pay the appropriate examination fee, where applicable, when
Notices to Students

making such application. Where Supplemental examinations are held a similar application must be made on or before July 12th, 1978 and a similar fee paid by students who wish to sit the Supplemental examinations. Courses to which this regulation is applicable are identified in the Course descriptions commencing on page 4.

(ii) The fees for College examinations for the session 1976/77 are as follows:
- £5 for the final examinations, or any part thereof;
- £3 for the second year examinations, or any part thereof, on the Diploma Course in Electrical Engineering (Ref. S.E.E.), the Diploma Course in Ophthalmic Optics (Ref. W.S.O.) and on the second and third years on the Diploma Course in Dietetics and Nutrition (Ref. W.B.D.).
- £1 for all other examinations.

(iii) Students should note that the sole proof that an application has been received by the College is the official receipt for the appropriate examination fee.

(iv) Students will be admitted to the Examination Hall only on production of the appropriate admission ticket (in addition to the Identity Card issued by the College) which is issued when and if an application to sit the examination is approved by the College.

(v) Applications for entry to examinations received after 22nd, March 1978 in the case of Summer examinations and after July 12th, 1978 in the case of Autumn examinations will be considered by the College only where they are accompanied by a Late Entry Fee of £2. No application for entry to examinations will be considered if received later than Wednesday, April 5th, 1978, in the case of Summer examinations or July 28th, 1978, in the case of Autumn examinations.

6. Students on courses having mandatory College examinations who do not take their sessional examinations at the Summer sitting will not be permitted to sit the Supplemental examination, unless the College is satisfied that good and sufficient reason (e.g. serious illness) existed for not taking the Summer sitting.

7. Students on courses having mandatory College examinations are required to pass the sessional examinations on their course at the Summer sitting, or, at latest, at the Supplemental sitting (if any) immediately following each year of study. Those who do not pass at these examination sittings will not normally be re-admitted to the course or permitted to resit the examination in later years, except with the special permission of the College authority. Where such special permission is granted it shall extend to the following Summer and/or Supplemental sitting of the same examination only.

It should be noted that no Supplemental Examinations are held for the Final year of any College Certificate or Diploma Course.

8. Students should note that a full attendance at classes in all subjects of their course is expected, and a minimum average attendance of 75% in each subject of their course is required. Students who fail to comply with this requirement without satisfactory explanation will be refused permission to sit College examinations, and endorsement of their entries for external examinations will similarly be refused.

9. Students should pay particular attention to the Regulations of the Academic Board governing College Examinations as stated in Appendix A and Appendix B on pages 58 and 59 of this Prospectus.

GENERAL

1. Students must at all times obey the lawful instructions of lecturers and other members of the College staff. Misconduct in the College or its grounds may lead to suspension or expulsion. All lecturers 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 changing
rooms, or Examination Hall.
4. Students are not permitted to bring
overcoats, etc., into the College Class
Rooms, Laboratories, Lecture Theatres,
Workshops, gymnasium or library.
Locker accommodation is available for
a considerable number of students on
payment of a fee of £2·50 per session.
This includes a deposit of £2·00,
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.
ENTRY REQUIREMENTS
In general terms, the minimum academic
requirements for entry to courses will be
as follows:
(a) For Diploma Course in Applied
Sciences and Honours Diploma in
Electrical Engineering: Grade C or
higher in two subjects taken at Higher
Level (one of which must be in
Mathematics or Applied Mathematics or a
Science Subject) in the Leaving
Certificate examination.
Pass levels in four other subjects in the
Leaving Certificate examinations.
(English must be presented as one of the
subjects passed in all cases.)
(b) For other courses requiring Leaving
Certificate standard for entry:
Pass in English.
Pass in Maths (or Applied Maths).
Pass in three other subjects in the Leaving
Certificate examinations.
(c) Attainment which the College regards
as equivalent to those specified in
(a) and (b) will be acceptable.
(d) Applicants may be required to
undergo Selection Tests and admission
will be dependent on satisfactory results
in these tests and on satisfactory
interview as well as the foregoing.
(e) In some cases the College may
demand a pass, or a particular grade of
pass, in specific subjects additional to
those set out above, particularly where
such subjects are required by external
examining or other bodies.
(f) Where the entry requirement to a
particular course is other than as stated in
(a) to (e) above, such requirement will
be found under the relevant course
heading.
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.
Notice to Students

Students normally resident in the City of Dublin and who wish to compete for a Scholarship from the City of Dublin Vocational Education Committee should complete the official application form. These forms are available from the College Secretary/Registrar or from Heads of Departments. Please note that the section on the application form which refers to documentation on public examinations and course acceptance must be signed by an authorised member of the College Staff.

The CLOSING DATE for applications to the City of Dublin Vocational Education Committee is WEDNESDAY, 12th October, 1977.

SCHOLARSHIPS

Vocational Education Committees throughout the country offer scholarships to students attending certain full-time technician and other advanced level courses at this College. Interested students should make immediate application to the Chief Executive Officer of their LOCAL Vocational Education Committee.
The College has a well equipped Closed Circuit Television system and a Technician is shown at the control centre editing an instructional tape made in the studio.
Diploma in Applied Sciences/Ref. WSAD

A wholetime course leading to a Diploma in Applied Sciences for those wishing to combine the study of two areas of science with emphasis on applied aspects. The suitability of the course for industrial and related activities is enhanced by studies in Management and a modern Continental language.

Those who successfully complete this course are eligible for the award of the B.Sc. (Applied Sciences) Degree of the University of Dublin. Both the Diploma and Degree may be awarded with honours classification. A fee of £20.00 is payable to the University of Dublin by those who present themselves for the award of the B.Sc.

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

COURSE DURATION
Four years: 5 days (26–29 hours per week).

QUALIFICATIONS FOR ENTRY
As stated at (a) in General Entry Requirements on page 15.

COURSE
FIRST YEAR: Mathematics, Physics, Chemistry, Industrial Studies and a Modern Continental Language.
SECOND YEAR: Students select two subjects from Mathematics, Physics and Chemistry and in addition continue their studies in Industrial Studies and the Modern Continental Language taken in First year. Students selecting Physics and Chemistry will also be required to take Ancillary Mathematics in Second year.
THIRD YEAR: Students continue their studies in the subjects taken in Second year.
FOURTH YEAR: Each student will continue with the subjects taken in Third year.

EXAMINATIONS
Examinations will be set by the College at the end of each year of the course. These examinations will be held in the Summer. Supplemental examinations will be held where appropriate in the Autumn. The attention of the students is particularly directed to Examinations Regulations 5, 6, 7, 8 and 9 on pages 13 and 14.

VACATION TRAINING
Students are expected to undertake approved employment with Industrial or Scientific enterprises and Laboratories during his Summer Vacation Periods. The College will assist when possible in arranging this vacation work.

COURSE FEE
£53.00 per Academic Year.

DEPARTMENT IN CHARGE
Physics.

University of London B.Sc. Degree/Ref. WSD

This course is being terminated and in Session 1977/78 only the Third and Fourth years of the course will be offered.

NATURE OF THE COURSE
This is a four-year full-time course leading to the award of Pass and Honours Degrees of the University of London. The course is recognised for the purpose of the Local Authorities' Higher Education Grants Scheme.

QUALIFICATIONS FOR ADMISSION
As stated at (a) in General Entry Requirements on page 15.

CURRICULUM
3rd Year:
The student will choose two of the following subjects. The choice allowed to the students is strongly governed by their second year subjects:
Courses in Science

Physics II.
Chemistry II.
Mathematics II.
Statistics II.

All students will continue their study of Industrial Studies and a Modern Continental Language.

4th Year:
Students will continue all subjects as taken in Third Year.

EXAMINATIONS
The attention of students is directed to the Special Regulations of the Academic Board as stated in Appendix 'B' and published on page 59 of this Prospectus, as well as to the General Regulations governing College Examinations on page 13.

COURSE FEE
£53.00 per academic year.
Enquiries should be addressed to the Department of Physics.

University of London B.Sc. Degree/
Ref. PSD

This course is being terminated and in Session 1977/78 only the Third, Fourth and Fifth years of the course will be offered.

A part-time course for the External B.Sc. Degree Examination 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.

EXAMINATIONS
The B.Sc. Standard II (Final) Examination of London University is taken at the end of the fifth year. Internal examinations may be set by the College at the end of the third and fourth years.

FEE
Part II Course: £16.00 per academic year.

DEPARTMENT IN CHARGE
Mathematics.

Advanced Science Courses
/Part-time PSI; Evening S3.2 & S3.3
These courses provide education in science to the Advanced Level of the General Certificate of Education.
Entry is restricted to students who are in approved employment.

COURSE DURATION
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 Grade C (or higher) 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
Part-time PSI students must choose one of the following subject groups:
Group 1: Physics, Chemistry, Mathematics.
Courses in Science

Group 2: Physics, Chemistry, Biology. Evening S3.2 & S3.3—Only Group 1 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.

FEES
Part-time: PSI—£11·00 per academic year. Evening: S3.2 & S3.3—£8·50 per academic year.

DEPARTMENT IN CHARGE
Mathematics.

Graduateship of the Institute of Physics / Ref.: PSIP

NATURE OF THE COURSE
This is a part-time course extending over two Academic years and leading to the Graduateship of the Institute of Physics Part II Examination. Graduateship of the Institute of Physics is recognised as equivalent to an honours degree in Physics.

QUALIFICATIONS FOR ADMISSION
A B.Sc.(Gen.) or B.A.(Gen.) with Physics as a degree subject, HND in Applied Physics, Technician Diploma in Applied Science (Applied Physics Option) from College of Technology, Kevin St.

COURSE DURATION
Two years part-time.

COURSE CONTENT
The Graduateship Part II Examination consists of 4 compulsory papers:

1. Atomic and Nuclear Physics.
3. Thermal and Statistical Physics.
4. Wave Motion and Electromagnetic Radiation and one paper chosen from Applied Optics, Nuclear Instrumentation and Technology.

EXAMINATIONS
The five examination papers may be taken at the end of the second year of the course or alternatively 2 papers, Atomic and Nuclear Physics and Wave Motion and Electromagnetic Radiation, may be taken at the end of the first year and the outstanding papers at the end of the second. Students whose progress during the first year of the course is unsatisfactory will not be allowed to enter second year. Students are advised to familiarize themselves with the regulations of the Institute.

FEE
£26·00.

DEPARTMENT IN CHARGE
Physics.

Technicians' Diploma Course in Applied Science / Ref. WAS

This course is designed to meet the requirements of those students seeking a training as Technicians for

(a) research and development in industrial laboratories;
(b) scientific and industrial instrument manufacturing industries;
(c) the food processing industries.

COURSE DURATION
Three years full-time.

QUALIFICATIONS FOR ADMISSION
As stated at (b) in General Entry Requirements on page 15.

COURSE
1st Year: Experimental Physics, Mathematics, Chemistry, Biology, Drawing, Industrial Studies, a Modern Continental Language.
In the second and third years students may specialise in one of the following options:

1. Applied Chemistry.

**APPLIED CHEMISTRY OPTION**

2nd and 3rd Years: Inorganic, Physical, Organic and Analytical Chemistry, Chemical and Plastics Technology, Mathematics, Industrial Studies and a Modern Continental Language.

The Diploma is approved by the Royal Institute of Chemistry as exempting from Part I of the Graduateship and graduates are eligible for Licentiateship of the Institute after a period of approved experience.

Agreement has been reached with a number of firms who will offer employment to students during vacation time with a view to offering sponsorship together with career prospects for selected students.

**APPLIED BIOLOGY OPTION**

2nd Year: Biochemistry, Microbiology, Applied Biology, Photography, Workshop, Biological Application of Radioisotopes, Industrial Studies and a Modern Continental Language.

2nd Year: Biochemistry, Microbiology, Applied Biology, Biological Application of Radiosotopes, Biometry, Industrial Studies and a Modern Continental Language.

**APPLIED PHYSICS OPTION**

2nd Year: Physics, Mathematics (including the use of computers), Materials Science, Electronics, Medical Physics, Photography, Instrumentation and Control Theory, Engineering Practice, Industrial Studies and a Modern Continental Language.


**EXAMINATIONS**

College Examinations will be set in all subjects at the end of each year. Students must pass these examinations in order to proceed to the next year of the course. Supplemental examinations will be held where appropriate in September. The College Diploma will be awarded to those who complete the course in a satisfactory manner and pass the examination at the end of the Final Year. The attention of students is particularly directed to Examinations Regulations 5, 6, 7, 8 & 9 on pages 13-14.

**VACATION WORK**

Students will be expected to undertake vacation work for at least one month in approved industries. The College may assist them to arrange this.

**FEE**

£33.00 per academic year.

**DEPARTMENT IN CHARGE**

1st Year of course: Physics.
2nd and 3rd Years: Chemistry/Biology or Physics as appropriate.

**Home-Economics Teachers’ Course**

/Ref. S8

This course is designed for Home-economics teachers who wish to study the proposed new Leaving Certificate syllabus in Home-economics.

**COURSE DURATION**

Two years, two evenings per week.

**QUALIFICATIONS FOR ADMISSION**

The course is confined to Home-economics teachers.
Courses in Science

COURSE DETAILS
Subjects offered will include Chemistry, Biochemistry, Microbiology, Anatomy and Physiology.

EXAMINATIONS
The College certificate will be awarded to candidates who attend regularly and are successful in the examination at the end of the second year. The attention of students is particularly directed to Examinations Regulations 5, 6, 7, 8 and 9 on pages 13 & 14.

FEE
£11.00 per academic year.

DEPARTMENT IN CHARGE
Chemistry and Biology.

Science Laboratory Technicians' Course /Ref. PSL

NEW SCHEME:
A part-time course to meet the needs of technicians employed in universities, research and other educational institutions and of technicians employed in industrial laboratories. The aim is to provide a thorough grounding in fundamental laboratory practice and procedures and a sound knowledge of the underlying scientific principles. The first two years of the course are designed to give a general introduction to Science Laboratory Techniques. The third year is planned to allow some degree of specialisation but still retain most of the broad approach of the first two years.

COURSE DURATION
Three years—one full day or two half days and two evenings/week.

SUBJECTS
Physics, Chemistry, Biology, Laboratory Procedures and Practice, Workshop Practice, Mathematics, Industrial Studies and Laboratory Management.

EXAMINATIONS
Examinations will be held at the end of each year. On passing the third year examinations the student will be awarded a College Certificate.

OLD SCHEME:
City and Guilds Course.
Only the fourth, fifth and sixth year of the old form of the Course for the City and Guilds Science Technicians' Certificate (Ref. 735) will be offered in session 1977/78. Students pursuing the Course in this form should consult the Head of Department.

FEE
£11.00 per academic year.

DEPARTMENT IN CHARGE
Chemistry and Biology.
The photograph shows students from the Technicians' Diploma Course in Applied Science preparing to make some measurements using a cathode-ray oscilloscope in the first year physics laboratory. These students follow a three years full-time course in preparation for work in manufacturing industries and industrial laboratories.
Glassblowing/Ref. G1
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
£6.00 per academic year.

DEPARTMENT IN CHARGE
Chemistry and Biology.

Diploma in Dietetics and Nutrition/Ref. WaD
The course is designed to provide integrated training in the Science of nutrition and dietetics and its applications to human health and wellbeing, both at the individual and community level. Students who qualify are equipped to work various spheres in the nutritional field such as Health Services; Food Industry; Nutritional Surveys; Advisory work; Teaching and research.

DURATION
4 years. This includes six months’ practical working in the Dietetic Department of a recognised teaching hospital and also a period of practical experience in administration of Food Services and other professional work.

SUBJECTS STUDIED
The early stages of the Course include Physics, Chemistry, Mathematics, Biology and Food Preparation, followed by Biochemistry, Physiology, Nutrition, Microbiology and Food Science. The final stage includes the study of Applied Nutrition, Medicine, Dietetics and Diet Therapy, Administration of Food Services and Practical Training. Continental Language and Industrial Studies are included in each year of the Course.

DEPARTMENT IN CHARGE
This qualification is recognised by the British Dietetic Association for full membership and is accepted for admission to M.Sc. programmes in the field of Human Nutrition in various Universities.

QUALIFICATIONS FOR ADMISSION
Applicants must hold the Leaving Certificate with passes in at least six subjects including English, Mathematics and an approved Science subject (Chemistry, Physics or Biology—preferably Chemistry), with Grade C or higher in at least two higher course papers. Equivalent qualifications are also accepted.

EXAMINATIONS
Examinations are obligatory at the end of each academic year and must be passed in order to proceed to the following year of the course. These examinations are held in June with supplemental examinations where appropriate in the Autumn. The attention of the student is particularly directed to Examinations Regulations 5, 6, 7, 8 & 9 on pages 13 & 14.

FEE
£53.00 per academic year.

LECTURER-IN-CHARGE
Miss Frances Doherty, B.Sc., B.A.(Mod.), M.N.S.

DEPARTMENT IN CHARGE
Chemistry and Biology.

Diploma in Food Science/Ref. S6
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.
Courses in Science

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 normal 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.
The attention of students is particularly directed to Examinations Regulations 5, 6, 7, 8 & 9 on pages 13 & 14.

FEE
£16·00 per academic year.

DEPARTMENT IN CHARGE
Chemistry and Biology.

Course in Professional Photography /Ref. PSP
This is a part-time course in Professional Photography with admission restricted to students already employed professionally as assistant or trainee photographers.
The Certificate of the College is awarded on the result of the College examinations at the end of the third year.

COURSE DURATION
Three years. One day and two evenings per week.

MINIMUM QUALIFICATIONS FOR ADMISSION
As stated at (b) in General Entry Requirements on page 15.

COURSE
1st Year: Photographic Theory and Practice, Chemistry, Physics, Technical German, Industrial Studies, Graphic Design.

2nd Year: Photographic Theory and Practice, Physics, Technical German, Industrial Studies, Graphic Design.

3rd Year: Photographic Theory and Practice (including Colour Work), Physics, Technical German, Industrial Studies, Graphic Design.

EXAMINATIONS
The final examination for the College Certificate in Professional Photography is taken at the end of the third year.
Students are required to sit and pass the College examinations at the end of each year of the Course.
The attention of students is particularly directed to Examinations Regulations 5, 6, 7, 8 & 9 on pages 13 & 14.

FEE
£31·00 per academic year.

DEPARTMENT IN CHARGE
Physics.

Advanced Certificate in Professional Photography /Ref. PSP4
NATURE OF THE COURSE
The Advanced Certificate in Professional Photography is a two-year part-time course and is intended for the student who has obtained the College Certificate in Professional Photography. The course aims to increase the student's depth of photographic knowledge and to prepare
Courses in Science

him for a considerable degree of personal responsibility, both in the organisation, planning and execution of his work as a Photographer and in the supervision of others. Considerable emphasis is placed on developing an awareness of the economic factors affecting the operation of the photographic business or establishment.

COURSE DURATION
Two years part-time.

QUALIFICATIONS FOR ADMISSION
(1) College Certificate in Professional Photography.
(2) An examination which the College considers an equivalent of (1).

CURRICULUM
1st Year: Photography Theory and Practice, Management and Industrial Studies, Law, Graphic Design.
2nd Year: Photography Theory and Practice, Management and Industrial Studies and Graphic Design.

EXAMINATIONS
A College Examination will be set in all subjects at the end of the first year. Students must complete their course work in a satisfactory manner and pass the examinations in order to proceed to the second year of the course. The College Advanced Certificate will be awarded to students who complete their course work in a satisfactory manner and pass the examinations at the end of the second year.

COURSE FEE
£31 per academic year.

DEPARTMENT IN CHARGE
Physics.

Photographic Technician’s Certificate/Ref. PSPT
This course is intended to meet the requirements of students who are employed
(a) As photographic technicians in research, industry or allied fields.
(b) In the photofinishing industry and commercial colour laboratories.
The Certificate of the College is awarded on the result of the College examinations at the end of the third year of the course.

COURSE DURATION
Three years. One day and two evenings per week.

QUALIFICATIONS FOR ADMISSION
As stated at (b) in General Entry Requirements on page 15.

COURSE
1st Year: General Photographic Theory, Mathematics, Physics, Chemistry, Industrial Studies, Graphic Design.
2nd Year: General Photographic Theory, Physics, Chemistry, Industrial Studies, Engineering Practice, Graphic Design.
3rd Year: In the third year of the course, the student will follow a specialised course in one of the following:
(a) Applied Photography
or
(b) Photofinishing and Colour Laboratory Practice,
and continue studies in Physics, Industrial Studies, Engineering Practice.

EXAMINATIONS
The Photographic Technician’s Certificate Examination is taken at the end of the third year: Students are required to sit and pass the College examinations at the end of each year of the course. The attention of students is particularly directed to Examinations Regulations 5, 6, 7, 8 & 9 on pages 13 & 14.
Courses in Science

FEE
£31.00 per academic year.

DEPARTMENT IN CHARGE
Physics.

Course for the Diploma of the Photographic Dealers' Association /Ref. PSPD
The course is intended to provide those involved in photographic sales with a good knowledge of photography and its allied sciences, technical and managerial. The course extends over two academic years. At the end of the first year students may sit the Intermediate Examination and at the end of the second year students may sit the Diploma Examination of the Photographic Dealers' Association.

COURSE DURATION
2 years part-time, one full day and two evenings per week.

QUALIFICATION FOR ADMISSION
As stated at (b) in General Entry Requirements on page 15.

COURSE 1st Year:
Physics and Mathematics.
Chemistry.
Photography and Product Knowledge.
Photography Practical.
Economics and Industrial Studies.

2nd Year: Photographic Theory and Practice (including still and cine work).
Industrial Studies.

FEE
£21.00 per academic year.

DEPARTMENT IN CHARGE
Chemistry and Biology.

Graduateship of the Royal Institute of Chemistry /Ref. PSIC
This is a part-time course leading to Graduateship of the Royal Institute of Chemistry (Part II). This qualification is recognised as equivalent to an honours degree in Chemistry.

QUALIFICATIONS FOR ADMISSION
G.C.E. 'A' Levels in Chemistry, Physics and Mathematics or a National Certificate in Applied Chemistry. Candidates who already hold a B.Sc. (General) or a B.A. (General) with Chemistry as a degree subject, or a HND in Applied Chemistry, or a Technician Diploma in Applied Science (Applied Chemistry Option) from the College of Technology, Kevin Street, may be exempted from the Part I examination, subject to the approval of the Royal Institute of Chemistry.

EXAMINATIONS
Students may sit the Part I examination at the end of the second year and Part II at the end of the fourth year. Internal College examinations will be set at the end of the first and third years and students must pass these examinations in order to continue with the course. Students are advised to familiarize themselves with the regulations of the Royal Institute of Chemistry.

FEE
£26.00 per academic year.

DEPARTMENT IN CHARGE
Chemistry and Biology.

Courses for Medical Laboratory Technicians /Ref. Wholetime WML
These courses provide education in the appropriate Sciences and Technology for those seeking a career as Technicians in Medical or Veterinary Laboratories.
Courses in Science

The Courses are designed to enable students ultimately to become Members of the Institute of Medical Laboratory Sciences.

COURSE DURATION
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.

MINIMUM QUALIFICATIONS FOR ADMISSION
Leaving Certificate with Mathematics, English and an approved Science subject.
It should be noted that, because of the large number of applicants for this course, those who are admitted normally have a Leaving Certificate performance exceeding the minimum requirement stated above.
In addition to the above those seeking admission to the 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, Medical Laboratory Sciences, Social Science and Industrial Studies.
2nd and 3rd years: Medical Laboratory Sciences,* Chemistry, Biology, Physics.

*Includes Histopathology, Haematology, Blood Transfusion, Microbiology, Clinical Chemistry.

EXAMINATIONS
Stages 1 and 2 of the Department of Education examinations for the Certificate in Medical Laboratory Sciences are taken as follows:
Stage 1 together with a College Examination in Industrial Studies at end of 1st year.
Stage 2 at end of 3rd year.
Each part of the examination will be held twice a year.

Students should note that to proceed to the second year of the course they are required to pass the six subjects of their first year course as follows:—
The Examination Subjects are regarded in two groups:

GROUP A
Chemistry—Department of Education (Stage 1).
Biology—Department of Education (Stage 1).
Medical Laboratory Sciences—Department of Education (Stage 1).

GROUP B
Physics—Department of Education (Stage 1).
Mathematics—Department of Education (Stage 1).
Industrial Studies—College Examination (Year 1).

Students with passes in 2 subjects only in each group may, at the discretion of the Academic Board of the College, be allowed to carry the other subject and to proceed to the second year.

It should be noted that the Grade A.L. in the Department of Education Stage I Examination is not acceptable as a pass for this purpose.

This Certificate is recognised by the Institute of Medical Laboratory Sciences as exempting from its Intermediate Examination.
Courses in Science

FEES
Wholetime WML: 1st year £38.00 per academic year.
2nd and 3rd years: £11.00 per course.

LECTURER-IN-CHARGE
Dr. Doreen K. Nolan,
L.M., L.R.C.P.I., L.R.C.S.I., D.P.H.

DEPARTMENT
Chemistry and 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 12 weeks duration in each year.

QUALIFICATIONS FOR ADMISSION
The Certificate in Medical Laboratory Sciences with full credits in Physics and Mathematics, or equivalent.

COURSE
All students will study core subjects and select one subject from specialist option.

CORE
Chemistry, Biochemistry, Physiology, Physics, Industrial Studies.

SPECIALIST SUBJECT
Microbiology, Histopathology, Haematology and Blood Transfusion, Clinical Chemistry.

EXAMINATIONS
Year 1: College Examination.
Year 2: Department of Education Diploma in Medical Laboratory Sciences. This Diploma is recognised by the Institute of Medical Laboratory Sciences as exempting from its Associateship Examination.

FEE
£16.00 per course.

DEPARTMENT IN CHARGE
Chemistry and Biology.

Special Course for Fellowship of the Institute of Medical Laboratory Sciences /Ref. S10
An advanced course in Medical Laboratory Sciences for students taking special fellowship examination of the Institute of Medical Laboratory Sciences. Courses are offered subject to sufficient enrolments.

COURSE DURATION
Two years, one evening per week.

QUALIFICATIONS FOR ADMISSION
Associateship of the Institute of Medical Laboratory Sciences or Diploma in Medical Laboratory Sciences of the Department of Education.

EXAMINATION
Special Fellowship examination of the Institute of Medical Laboratory Sciences.

COURSE FEE
£11.00 per academic year.

DEPARTMENT IN CHARGE
Chemistry and Biology.

Course in Animal Technology/Nursing/Ref. S9
This is a two year evening course for animal technicians and nurses who are employed in approved veterinary institutions. Classes are held concurrently for anatomy and physiology and separate classes are held for each group in the specialised aspects of animal technology and nursing.
At the end of the first year animal technicians sit the Intermediate Examination of the Institute of Animal
The Department of Chemistry and Biology has a well equipped physical chemistry laboratory. The photograph shows students of medical laboratory science engaged in various instrumental analytical procedures commonly used for the analysis of serum samples.
Courses in Science

Technicians. After a further two years study (one year course) they sit the Associateship Examination of the Institute of Animal Technicians. Animal nurses sit Part I of the registration examination for Registered Nursing Auxiliaries of the Royal College of Veterinary Surgeons at the end of the first year. At the end of the second year they may complete Part II of this examination, thus qualifying as Registered Animal Nursing Auxiliaries.

COURSE FEE
£6.00.

DEPARTMENT IN CHARGE
Chemistry and Biology.

Institute of Meat Course/Ref. S11.
A course leading to the Certificate of the Institute of Meat. The course is designed for supervisory personnel in the Meat Industry and the evening classes are supplemented by on-the-job training in the relevant meat factories. Students are therefore required to be in appropriate employment. Although formal entry qualifications are not required it is assumed that candidates have a school background of Leaving Certificate standard.

COURSE DURATION
Two years—two evenings per week.

FEE
£11.00 per academic year.

DEPARTMENT IN CHARGE
Chemistry and Biology.

Course in Plastics
/Ref. PCP
A part-time course for trainee technicians, foremen supervisors and trainee managers in the plastics processing industry. The course is designed to give a broad education in plastics processing and includes a study of material science, extrusion technology, film production, blow moulding, injection moulding and pipe-extrusion.

COURSE DURATION
One year—one week full-time in September, followed by one afternoon and evening during the remainder of the academic year.

ADMISSION REQUIREMENTS
As stated at (b) in General Entry Requirements on page 15. Applicants must be employed in the plastics industry.

FEE
£16.00 per academic year.

DEPARTMENT IN CHARGE
Chemistry and Biology.

Diploma in Ophthalmic Optics
/Ref. WSO
This is a whole-time course leading to a Diploma in Ophthalmic Optics and providing the education and training statutorily required for entrants to the profession by the Opticians' Act, 1956 and the Rules made thereunder. The course is approved by Bord na Radharcmhastoiri (the Opticians' Board) which is the Registration Authority set up under the Act. Holders of the Diploma in Ophthalmic Optics must also satisfy the Council of the Association of Ophthalmic Opticians, Ireland, of their clinical competence.

COURSE DURATION
Four years, including a period of six months' supervised practice undertaken at the end of the third year of the course.

ENTRY REQUIREMENTS
To be eligible for admission to the course, applicants must hold the Leaving
Courses in Science

Certificate with passes in at least six subjects including English and Mathematics, with Grade C or higher in at least two higher course papers. Equivalent qualifications are also accepted.

COURSE
First Year: Mathematics, Physics, Chemistry, Biology, Workshop Practice, Continental Language and Industrial and Related Studies.


Third Year: Visual Optics and Instruments, Physiology of Vision, Binocular Vision, Contact Lenses, Optical Dispensing, Ophthalmic Practice, Abnormal Ocular Conditions, Law and Ethics, Continental Language and Industrial and Related Studies.

Fourth Year: Six months' supervised practice followed by a return to College for: Abnormal Ocular Conditions, Ophthalmic Practice, Contact Lenses, Environmental Optics, Project Work, Continental Language and Industrial and Related Studies.

EXAMINATIONS
Examinations will be set by the College at the end of each year of the course. These will be held in the Summer. Repeat examinations will be held where appropriate in the Autumn. The attention of students is particularly directed to Examinations Regulations 5, 6, 7, 8 and 9 on pages 13 & 14.

FEE
£53.00 per academic year.

LECTURER-IN-CHARGE
K. P. Culliton, F.A.O.I.

DEPARTMENT
Physics.
Persons interested in a course in Optical Dispensing should consult the Lecturer-in-Charge.
Full-time courses for Ophthalmic Opticians have been provided by the College for some years, replacing the evening courses which were phased out in the later 1950's. The Course structure provides a broad scientific base upon which can be built the more specialised subjects and the wide variety of clinical techniques which must be developed. Malfunction of binocular vision is of considerable significance, particularly in the child. The photograph shows senior students being instructed in the use of an Alternator type Synoptophore, an instrument for assessing the quality of binocular vision and providing training exercises to develop binocular co-ordination.
Courses in Science

Associateship of the Institute of Brewing/Ref. PBA
A part-time day course for technical staff employed in the Brewing and Distilling Industry. The course structure has been approved by the Institute of Brewing.

QUALIFICATIONS FOR ADMISSION
As stated in (b) in General Entry Requirements on page 15.

COURSE DURATION
Two years.

COURSE CONTENT
First year: Chemistry, Physics and Botany.
Second year: Biochemistry, Microbiology, Fermentation Science.

EXAMINATIONS
Students will be expected to sit the Examination for Associateship of the Institute of Brewing at the end of the second year.

FEE
£16.00 per academic year.

DEPARTMENT IN CHARGE
Chemistry and Biology.

Certificate for Medical Physics and Physiological Measurement Technicians/Ref. PBE
This is a course for those who work in Medical Physics, or are engaged in various aspects of physiological measurement or bio-engineering. It will be of interest to those working in hospitals, research, and certain types of veterinary, pharmaceutical and agricultural work. The course in the first year deals with the basic sciences and in subsequent years with the general range of Physiological Measurement, Bio-engineering and radioisotope techniques normally used in these situations.

DURATION
Three years, three nights per week.

ENTRY QUALIFICATIONS
As stated in (b) in General Entry Requirements. Prospective students are also required to be in an appropriate form of employment.

COURSE CONTENT
1st Year: Physics, Chemistry and Biology. Introduction to Electricity, Physiology and Data Presentation.
2nd Year: Electricity and Electrical Measurements. Human Physiology and Biochemistry. Radiation Physics, Physical Principles of Instrumentation and Data Interpretation.

EXAMINATIONS
Students will sit College Examinations at the end of each year. At the end of the third year students will sit for the College Certificate Examination.

FEE
£16.00 per academic year.

DEPARTMENT IN CHARGE
Physics.

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.
Languages, Industrial Studies and General Studies are an integral part of all whole-time courses and of many block-release and part-time courses. The photograph shows a class in the Language Laboratory.
**Courses in Science**

**COURSE DURATION**
Four 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 and 4th years: Organic Chemistry, Electrotechnology, Dental Theory, Dental Technology.

**EXAMINATIONS**
At the end of the second and fourth 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.

**DEPARTMENT IN CHARGE**
Chemistry and Biology.

**LANGUAGES**

**Intensive Course in Technical French and Technical German**
/Ref. GSAF and GSAG

The Department of Languages and Industrial Studies will provide an intensive course in Technical French or Technical German for those who wish to improve their knowledge and competence in either as a language of Specialisms (i.e. in the specialist aspect of vocational, scientific and technical language).

**COURSE DURATION**
1 year: 2 afternoons (10 hours) per week (or equivalent as arranged).

**QUALIFICATIONS FOR ADMISSION**
Leaving Certificate French or German or equivalent.

**FEE**
£51.00 per academic year.

**DEPARTMENT IN CHARGE**
Languages and Industrial Studies.

**Evening Courses in Modern Languages, German and French**
/Ref. L.1/2/3

The Department of Languages and Industrial Studies provides courses in German and French at Elementary, Intermediate and Advanced Levels.

**COURSE DURATION**
1 evening per week (3 hours).

**FEE**
£11.00 per academic year:

**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. M1
A Course in Practical Mathematics.

**COURSE DURATION**
Four years: One evening (2 hours) per week.
Courses in Science

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
£5.00 per academic year.

B. Mathematics for Telecommunications/Ref. M2

COURSE DURATION
Four years: One evening per week (1 1/2 hours per week for first two years; 2 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, C at the end of second, third and fourth years, respectively.

FEE
£5.00 per academic year.

C. Mathematics for Engineering /Ref. M3

COURSE DURATION
Four years: One evening per week (1 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
£6.00 per academic year.

D. Mathematics for Science/Ref. M4

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

COURSE DURATION
Six Years: One evening (3 hours) per week.

EXAMINATIONS
University of London examinations:
G.C.E. “A” Level Pure Mathematics (Syllabus 405) at end of second year.
The final four years do not constitute a degree course and are intended for students who wish to study mathematics up to degree level without taking examinations. The Part I standard is reached at the end of the fourth year and Part II standard at the end of sixth year.

For degree courses see WSD and PSD.

FEE
£6.00 per academic year.

E. Applied Mathematics/Ref. M5

COURSE DURATION
One Year: one evening (3 hours) per week.

EXAMINATIONS
“A” Level Mathematics (Syllabus D) at end of the year.

FEE
£6.00 per academic year.
F. Statistics/Ref. M6
A course leading to Associateship of the Institute of Statisticians.

Classes are provided for students preparing for Stages I, II and III of the Institute's Examinations.

A course for the Preliminary Examination is available in the College of Commerce Rathmines.

The Institute may grant exemption from the Preliminary Examination to candidates with suitable qualifications.

COURSE DURATION
Three Years; Three Evenings (9 hours) per week in the first year and two evenings (6 hours) per week in the second and third years.

EXAMINATIONS
First Year: The Stage I Examination of the Institute of Statisticians at the end of the first year.

Second Year: The Stage II Examination of the Institute of Statisticians at the end of the second year.

Third Year: The Stage III Examination of the Institute of Statisticians at the end of the third year.

FEE
£11.00 per academic year.

Graduateship of the Institute of Mathematics and its Applications/Ref. M7
A Course leading to the Graduateship of the Institute of Mathematics and its Applications. Graduateship of the Institute of Mathematics and its Applicants is recognised as equivalent to an honours degree in Mathematics.

COURSE DURATION
Two years; Three evenings per week.

QUALIFICATIONS FOR ADMISSION
A University degree with Mathematics at the General Degree level or equivalent.

COURSE
The Graduateship Examination consists of six papers:
(i) three compulsory papers (which must be passed at the one sitting)
   (a) algebra
   (b) differential equations
   (c) analysis
(ii) three papers in optional topics.

The College would propose to offer the following topics:
   (a) Mathematical Statistics
   (b) Computer Science
   (c) Advanced Numerical Analysis

Applicants interested in other options should consult with the Head of Department.

EXAMINATIONS
Normally students would sit the compulsory papers at the end of first year and the remaining papers at the end of second year. Students are advised to familiarise themselves with the regulations of the Institute.

FEE
£26.00 per academic year.

DEPARTMENT IN CHARGE
Mathematics.
Honours Diploma Course in Electrical Engineering/Ref. SEE
A whole-time honours course leading to a Diploma in Electrical Engineering for those wishing to become professional electrical engineers. Those who successfully complete this course are eligible for the award of the B.Sc.(Eng.) degree of the University of Dublin. A fee of £20 is payable to the University of Dublin by those who present themselves for the award of the B.Sc.(Eng.) degree.
This course is recognised for the purposes of the Local Authorities Higher Education Grants Scheme.
The course is designed to meet the standards set by the Council of Engineering Institutions (CEI). The Institution of Engineers of Ireland recognise this Diploma as fulfilling the educational requirements for Ordinary Membership of this Institution and the consequent exemption of holders of this Diploma from Parts A and B of the Institution examination. Holders of the Diploma may in certain circumstances be accepted for work towards higher degrees in Universities.

COURSE DURATION
Four years: 5 days (approx. 30 hours) per week.

ENTRY REQUIREMENTS
As stated at (a) in General Entry Requirements on page 15.

COURSE
First year: Mathematics, Physics, Applied Mathematics, Electricity, Engineering Drawing, Materials and Processes, Engineer in Society and Continental Language.
Details of the Syllabi and examination regulations are available on request. The standard of the final year will not be less than that required by the C.E.I. Part II syllabi in the appropriate subjects.

EXAMINATIONS
Examinations will be set by the College at the end of each year of the course. These examinations will be held in the Summer. Repeat examinations will be held where appropriate in the Autumn. The attention of students is particularly directed to Examinations Regulations 5, 6, 7, 8 & 9 on pages 13 & 14.

VACATION TRAINING
Students are expected to undertake approved employment with engineering enterprises during the Summer vacation periods. The College will assist in arranging this vacation work.

FEE
£53.00 per academic year.

DEPARTMENT IN CHARGE
Electrical Engineering.

Technician Engineering Diploma Course—Electrical Engineering/(Whole-time) Ref. WEET
A whole-time course leading to a Technician Engineering Diploma of a high standard in the field of Electrical Engineering. The course has been approved by the Institution of Engineers...
of Ireland and holders of the College Diploma are eligible for election to the grade of Affiliate and later to the grade of Associate of the Institution.

Information may be obtained from the College Secretary/Registrar.

COURSE DURATION
Three years: 5 days (approx. 32 hours) per week.

ENTRY REQUIREMENTS
As stated at (b) in General Entry Requirements on page 15.

Entrants to the course may be eligible for scholarships which are awarded by the Vocational Education Committees.

In addition all prospective students are interviewed and may be required to undertake a suitability test.

COURSE


Details of the syllabi are available on request.

EXAMINATIONS
Examinations will be set by the College at the end of each year of the course. These examinations will be held where appropriate in the Summer. Repeat examinations will be held in the Autumn.

The attention of students is particularly directed to Examinations Regulations 5, 6, 7, 8 & 9 on pages 13 & 14, which apply to this course.

VACATION TRAINING
Students are expected to undertake approved employment with engineering enterprises during the Summer vacation periods: The College will, as far as possible, assist students in obtaining such vacation work.

FEE
£33·00 per academic year.

DEPARTMENT IN CHARGE
Electrical Engineering.

Electrical Technicians’ Certificate Course/(Block-release) Ref. SET

A block-release course which leads to a College Certificate for personnel in the electrical industry.

COURSE DURATION
Three years: 15 weeks block-release each year together with evening classes of two evenings per week when not on block-release.

ENTRY REQUIREMENTS
Students must be employed in the electrical engineering field and
(1) have completed the second year of an electrical apprenticeship course; or
(2) have obtained a pass in the Leaving Certificate (see page 15).

COURSE CONTENT
Year 1: Mathematics, Applied Mechanics, Physics, Principles of Electricity, Electrical Power, Industrial Studies, Continental Language.

Years 2 and 3: Mathematics,
Engineering Courses


EXAMINATIONS
Students sit college examinations at the end of each session. In addition students may take the Electrical Engineering Practice Examinations of the Department of Education or of the City and Guilds of London Institute.

FEE
£16.00 per academic year.

DEPARTMENT IN CHARGE
Electrical Engineering.

Electrical Technicians’ Course
/(Block-release) Ref. SEBT
A block-release course which trains technicians for the electrical supply industry.

COURSE DURATION
Two years: 14 weeks in year one and 18 weeks in year two.

ADMISSION REQUIREMENTS
Prospective students must be employed by the electrical supply industry and they must have passed Mathematics intermediate level (T.I.B.) or equivalent.

COURSE

EXAMINATIONS
Year 1: College examinations.

Year 2: The final examination in Electrical Engineering Practice of the City and Guilds of London Institute and of the Department of Education.

FEE
£16.00 per academic year.

DEPARTMENT IN CHARGE
Electrical Engineering.

Electrical Technicians’ Course
/(Evening) EI.1/2/3/4
An evening Course which prepares students for the Electrical Practice examinations of the Department of Education and the City and Guilds of London Institute.

COURSE DURATION
Four years: three evenings per week for years 1, 2, and 3 and four evenings per week for year 4.

ADMISSION REQUIREMENTS
Prospective students must:
(i) be employed in the electrical industry;
(ii) have passed the Leaving Certificate with Mathematics and Physics, or have successfully completed the second year of a course for apprentice electricians.

COURSE SUBJECTS
Laboratory work is included in all years of the Course.
EXAMINATIONS
Electrical Engineering Practice (803) of the City and Guilds of London Institute.
Year 1: Part I
Year 3: Part II with Electronics and Power options.
Department of Education
Year 4: Advanced Electro-technology, and Electrical Engineering Practice (Section B—Advanced Stage).

FEE
£8.50 per academic year.

DEPARTMENT IN CHARGE
Electrical Engineering.

Electrical Engineering/(Evening Course) Ref. E5.1
This is a two-year Evening Course covering some of the subjects of the Council of Engineering Institution’s Part 1 Examination.

ENTRY REQUIREMENTS
Students must have completed an approved Technician Engineering Course in the electrical or communication field and must also have passed or have exemption from the C.E.I. Part 1 Examination.

COURSE
The course will run for three or four evenings per week and will cover a selection of subjects in the electric power and communication fields, together with the Engineer in Society.

FEE
£11.00 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 technician engineers in telecommunications and electronics.

COURSE DURATION
Three years: five days per week.

MINIMUM QUALIFICATION FOR ADMISSION
As stated at (b) in General Entry Requirements on page 15.

COURSE
1st year: Mathematics, Applied Mathematics, Physics, Engineering Drawing, Workshop Practice, Electricity, Electronics.
2nd year: Mathematics, Physics, Electricity, Electronics, Circuit Theory, Measurements, Communications Engineering.
3rd year: Mathematics, Physics, Electronics, Circuit Theory, Measurements, Communications Engineering, Microwave Principles, Digital and Switching Principles.

In addition all years of the course include Industrial Studies and a language (French or German).
The College has been engaged in education in this area for well over 50 years, and has always strived to be well abreast of the most modern developments. Much more than Radio and T.V. is encompassed in our current activities, e.g. industrial electronics, digital electronics and systems, microwave and radar, etc., as well as the large field of electronic instrumentation. The photograph shows a technician working on the development of a video display system for the College computer.
EXAMINATIONS
The Diploma Examination is taken at the end of the third year. Internal College examinations are held at the end of the first and second years. The attention of students is particularly directed to Examinations Regulations 5, 6, 7, 8 and 9 on pages 13 & 14.

FEE
£33.00 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 telecommunications and electronics.

COURSE DURATION
Four years: 2½ days and 2 evenings per week (total 22½ hours per week).

MINIMUM QUALIFICATIONS FOR ADMISSION
As stated at (b) in General Entry Requirements on page 15.

Prospective students must be employed as trainee technicians in the electronics and telecommunications industry.

EXAMINATIONS
In addition to internal College 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 Advanced Studies subjects 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.

FEE
£16.00 per academic year.

DEPARTMENT IN CHARGE
Telecommunications Engineering.

Telecommunication Technicians’ Evening Course/Ref. R6
This evening course is designed to prepare students for the Part 1, Part 2 and Part 3 examinations of the City and Guilds of London Institute Course 271 (Telecommunication Technicians).

COURSE DURATION
The first two years complete the requirements for the Part 1 examination. A further two years are required to complete the requirements for the Part 2 examination. Over these four years attendance at the College is required on four evenings (12 hours) per week.

A fifth year, with attendance on three evenings (9 hours) per week, completes the course requirements for the Part 3 examination.

MINIMUM QUALIFICATIONS FOR ENTRANCE
Leaving Certificate (Ordinary Level) in Mathematics and English or equivalent. An entrance selection test may be set by the College.
EXAMINATIONS
At the end of first year students will sit for the Part 1 (T1) examinations:
Practical Mathematics (270-1-01)
Engineering Science (270-1-02)
Reports, Drawings & Processes (270-1-03)
At the end of second year students will take the Part 1 (T2) examinations:
Mathematics A (270-2-05)
Principles A (270-2-06)
and
Radio and Line Transmission A (270-2-07)
or
Computers A (270-2-10)
At the conclusion of third year students will sit for the Part 2 (T3) examinations in
Mathematics B (271-3-11)
Telecommunication Principles B (271-3-12)
and
Radio and Line Transmission B (271-3-13)
or
Computers B (271-3-17)
At the end of fourth year the student will take the part 2 (T4) examinations in
Mathematics C (271-4-18)
Telecommunication Principles C (271-4-19)
and
Communication Radio C (271-4-20)
or
Computers C (271-4-30)
The Part 3 examination will be taken at the end of fifth year in the following subjects:
Advanced Telecommunication Principles (271-5-31)
and
Advanced Communication Radio (271-5-33)
or
Computer Principles (271-5-42)

FEE
£6.00 per academic year.

DEPARTMENT IN CHARGE
Telecommunications Engineering:

Technician Diploma Course in Radio-Electronics/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, installation and maintenance of radio and electronic equipment.

COURSE DURATION
Three years: five days per week.

MINIMUM QUALIFICATIONS FOR ADMISSION
As stated at (b) in General Entry Requirements on page 15.

COURSE
The attention of students is particularly directed to Examinations Regulations 5, 6, 7, 8 & 9 on pages 13 & 14.

FEE
£28.00 per academic year.

DEPARTMENT IN CHARGE
Telecommunications Engineering.
Radio, Television and Electronics Technicians' Course/Ref. R5
This evening course is designed to prepare students for the Part 1, Part 2 and Part 3 examinations of the City and Guilds of London Institute Course 272 (Radio, Television and Electronics Technician).

COURSE DURATION
The first two years complete the requirements for the Part 1 examination. A further two years are required to complete the requirements for the Part 2 examination. Over these four years attendance at the College is required on four evenings (12 hours) per week. A fifth year, with attendance on three evenings (9 hours) per week, completes the course requirements for the Part 3 examination.

MINIMUM QUALIFICATIONS FOR ENTRANCE
Leaving Certificate in Mathematics and English, or equivalent. An entrance selection test may be set by the College. Prospective students must be employed in the radio-electronics trade or industry.

EXAMINATIONS
At the end of first year student will sit for the Part 1 (T1) examinations:
- Practical Mathematics (270-1-01)
- Engineering Science (270-1-02)
- Reports, Drawing & Processes (270-1-03)
At the end of second year students will take the Part 1 (T2) examinations:
- Mathematics A (270-2-05)
- Principles A (270-2-06)
- Radio and Electronics A (270-2-11)
At the conclusion of third year students will sit for the Part 2 (T3) examinations in Mathematics B (271-3-11) and Principles B (271-3-12) together with a College examination in Radio and Electronics B.
At the end of fourth year the student will take the Part 2 (T4) examinations in Testing Methods (272-2-11) together with either Radio and Television Theory (272-2-12) and Radio and Television Fault Diagnosis (272-2-13) or Electronics Theory (272-2-14) and Electronics Fault Diagnosis (272-2-15)
The Part 3 examination will be taken at the end of fifth year in the following subjects:
- Colour Television (272-5-23)
- and
- F.M. and Multiplex Stereo (272-4-22)

FEE
£6.00 per academic year.

DEPARTMENT IN CHARGE
Telecommunications Engineering.

Industrial Electronics for Electricians /Ref. R7
This course consists of a series of 40 lecture/demonstrations extending over two years directed specifically towards electricians who require an understanding of industrial electronic principles and equipment.
The course provides an introduction to the principles of analogue and digital electronics and treats selected industrial applications. The analogue and digital sections are conducted in alternate years, with 20 lecture/demonstrations being provided in each year. Students may enter either year of the course, and the course content is when possible so arranged as to meet any special requirements of those attending.
ADMISSION REQUIREMENTS
Entry to the course is restricted to those who have completed a recognised electrical apprenticeship and who are employed as electricians.

COURSE FEE
£11.00.

DEPARTMENT IN CHARGE
Telecommunications Engineering.

Radio, Television and Electronics Mechanics Course/Ref. PRM

This is a part-time day release course designed to prepare students for Parts I, II and III of the City & Guilds of London Institute Course 222 (Radio, Television and Electronics Mechanics).

COURSE DURATION
The course extends over four years. Attendance at the College is required for one day and two evenings per week (12½ hours) for each of the four years.

ADMISSION REQUIREMENTS
A pass in the Intermediate Certificate or Group Certificate of the Department of Education, with Mathematics and English as essential subjects. Prospective students MUST be employed as trainees or apprentices in the electronics or telecommunications field.

COURSE
The course subjects include Electricity, Electronics, Radio, Television together with Mathematics and Mechanical Workshop Practice. A systems approach is used with a strong emphasis on the practical aspects and a restricted use of analysis.

EXAMINATIONS
The Part 1 examination is taken at the end of the first year.

The Part 2 examination (written) together with Practical Test set by the Radio, Television and Electronics Examination Board are taken at the end of the third year.

The Part 3 examination is taken at the end of the fourth year.

An internal College examination is set at the end of the second year of the course.

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 January/February.

COURSE DURATION
Sixteen weeks: five days per week.

ADMISSION REQUIREMENTS
Prospective students are required to hold the Marine Radiocommunication General Certificate, or show evidence of having an equivalent standard of knowledge in Electricity and Radio Communication.

COURSE
The course provides instruction and practice in the operation and maintenance of Electronics and Radar equipment.

FEE
£28.00 per course.

DEPARTMENT IN CHARGE
Telecommunications Engineering.
Engineering Courses

Marine Radio-Electronics Officers’ Course/Ref. WRO

This whole time course prepares students at the end of three years of study for the Marine Radiocommunication General Certificate conducted by the Department of Posts and Telegraphs. This Certificate is required for employment as a Radio Officer in the international merchantile marine services. In addition the course covers the requirements of the Telecommunications Technicians’ Certificate Examinations (Course 270/271 Parts I, II and III) of the City & Guilds of London Institute and students are required to sit these examinations, leading to the award of the Full Technological Certificate in Telecommunications.

COURSE DURATION
Three years: five days per week (including one evening per week during the first year).

MINIMUM QUALIFICATIONS FOR ADMISSION
As stated at (b) in General Entry Requirements on page 15.

COURSE
The course includes Mathematics, Engineering Science, Engineering Drawing, Electricity, Electronics, Radio Communication, Industrial Studies and Social Science.

FEE
£48.00 per academic year.

DEPARTMENT IN CHARGE
Telecommunications Engineering.

Course for Junior Telephone and Telegraph Mechanics, Department of Posts and Telegraphs/Ref. PTM

This is a part-time day release course specifically for Junior Mechanics who are employed by the Department of Posts and Telegraphs or the Post Office Factory, St. John’s Road, Dublin.

COURSE DURATION
Three years, with attendance at the College on one day and two evenings (10 hours) per week during the academic session.

ADMISSION REQUIREMENTS
The course is confined to Junior T. and T. mechanics of the Department of Posts and Telegraphs.

COURSE SUBJECTS AND EXAMINATIONS
*Examinations are set by the College in the subjects marked by an asterisk, and a College Certificate is awarded to successful candidates.
The examination in the subject Telecommunications I in the 2nd Year is conducted by the Department of Education.

FEE
£11.00 per academic year.

DEPARTMENT IN CHARGE
Telecommunications Engineering.
Engineering Courses

Post Office Engineering Technicians' Course/Ref. SRPO

This is 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 and Electronics:

FEE
£11·00 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.
The College provides courses for the technical education and training of apprentice electricians. The photograph shows apprentices in a laboratory investigating the applications of solid state devices in rectification and counting circuits.
COURSES
FOR APPRENTICES AND 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.

DEPARTMENT IN CHARGE
Electrical Installation.

Electrical Installation and Maintenance/Ref. SEM
This course provides full technical education for apprentice electricians in large industrial concerns.

COURSE DURATION
Four years: Approximately 16 weeks per year.

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
First and Second Years:

EXAMINATIONS

DEPARTMENT IN CHARGE
Electrical Installation.
Courses for Apprentices and Craftsmen

**Electrical Installation Work/Ref. BESB**

This Course provides technical and general education for apprentice electricians during the first three years of apprenticeship. Practical training is provided at an approved training centre.

**COURSE DURATION**
Three years. Block Release, one term of 11 weeks duration in each year of the course.

**ADMISSION REQUIREMENTS**
Employment as an apprentice electrician and approved arrangements with a training centre.

**COURSE**
The course is based on the relevant written examination syllabuses of the Department of Education and the City and Guilds of London Institute and includes Mathematics, Electrical Science, Electrical Craft Theory, Drawing, General Studies and Social Science. No workshop classes are provided.

**EXAMINATIONS**
The Electrical Trade and Technical Examinations of the City and Guilds of London Institute.

**DEPARTMENT IN CHARGE**
Electrical Installation.

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**Electrical Installation Work/Ref. SEAS**

This Course provides technical and general education for apprentice electricians during the first three years of apprenticeship. Practical training is provided at an appropriate training centre.

**COURSE DURATION**
Three years: Two days per week.

**ADMISSION REQUIREMENTS**
Employment as an apprentice electrician and approved arrangements with a recognised training centre.

**COURSE**
The course is based on the relevant written examination syllabuses of the Department of Education and the City & Guilds of London Institute, and include Mathematics, Engineering Science, Drawing, Electrical Science, Electrical Craft Theory, General Studies and Social Science. No workshop classes are provided.

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

**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 examinations of the City & Guilds of London Institute.

COURSE DURATION
Four years: four 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, Electrical Craft Practice, Electrical Science and Technical Drawing.

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

FEE
£6·00 for each of the first three years and £7·00 for the fourth year of the course.

DEPARTMENT IN CHARGE
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.

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 £8·50 per academic year.

DEPARTMENT IN CHARGE
Electrical Installation.

Electrical Technicians’ Certificate (Part III) City and Guilds of London Institute/Ref. T3.1/2

This course is designed to prepare students for the Electrical Technicians’ Certificate Part III examination of the City & Guilds of London Institute.

COURSE DURATION
Two years: two evenings per week.

ADMISSION REQUIREMENTS
Prospective students must have obtained a pass in the Electrical Technicians’ Certificate Part II examination of the City & Guilds of London Institute.

COURSE
EXAMINATIONS
Examination in Utilisation of Electrical Energy will be taken at the end of the first year. Examination in Transmission and Distribution of Electrical Energy at the end of second year.

FEE
£7.00 per academic year.

DEPARTMENT IN CHARGE
Electrical Installation.

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
£33.00 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.

DEPARTMENT IN CHARGE
Electrical Installation.

Diploma in Bakery Production and Management/Ref. WBT
This course is intended to meet the needs of students who wish to attain supervisory status or a position of responsibility in a large or small business where an understanding of the scientific principles involved, coupled with a wide knowledge of the bakery industry, would be useful.

DURATION
Twenty weeks full-time attendance at the College each year for three years. When
Courses for Apprentices and Craftsmen

not attending the College the student is expected to be in employment in the bakery industry.

**QUALIFICATIONS FOR ENTRY**
City & Guilds Advanced Craft Certificate; Pass Leaving Certificate or its equivalent, with a minimum of six months practical experience in a bakery. Students holding craft certificates will be exempted from the practical bakery instruction portion of the course.

**EXAMINATIONS**
The College Diploma will be awarded to those students who complete the course in a satisfactory manner and pass the required examinations. In addition students will be encouraged to sit for The City and Guilds of London Institute Full Technological Certificate at the end of the third year.

**FEE**
£18 (this may be reduced to £13 for students exempt from practical instruction).

**TEACHER IN CHARGE**

**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.

**TEACHER IN CHARGE**

**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**
£6.00 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**
£6.00 per academic year.
COURSES IN PHYSICAL EDUCATION

PHYSICAL EDUCATION

These courses are designed to cater for the recreational activities of the students and staff of the College and will include the following activities:

- Swimming.
- Life Saving.
- Sub Aqua.
- Water Polo.
- Gymnastics.
- Badminton.
- Fencing.
- Judo.
- Golf Tuition.
- Basketball.
- Trampolining.
- Volley Ball.
- Indoor Football.
- Soccer.
- Gaelic Games.
- Rugby.
- Hockey (Ladies).
- Hockey (Mixed).
- Orienteering.
- First Aid.
- Referees’ Courses.
- Lectures in P.E.
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 1977/78. 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.*
APPENDIX ‘A’

REGULATIONS OF THE ACADEMIC BOARD GOVERNING COLLEGE DIPLOMA EXAMINATIONS
(as approved by the College Council)

1. Examinations for diplomas shall be set, marked, organised and conducted in such a manner as may be decided by the Academic Board of the College.

2. Examination results shall be determined by the Academic Board whose decision shall be final. In arriving at its decisions the Board shall consult with the external examiners (if any), and the College examiners in the subject of the examination, and such other persons, in particular the teachers concerned with the course, as they may think necessary. The Academic Board, together with the external examiners, will constitute the Examination Board for the course.

3. In arriving at its decisions the Academic Board may consider not only the examination performance of the student, but also such other matters as it may consider to be relevant to the correct assessment of the students academic progress and ability.

4. The Academic Board may at its discretion, require any student to attend an interview in connection with the examination.

5. In no case shall examination markings be either published or provided individually to candidates, nor shall they be supplied to any person other than appropriate members of the academic staff of the College or the College Authorities.

6. The following shall constitute the normal practice of the Board with regard to examinations:—
(a) A student who, at the first sitting (e.g. in the case of sessional examinations, the June sitting) fails to satisfy the Board in not more than two subjects will be required to sit only the subjects concerned in the supplemental sitting.
(b) A student who, at the first sitting, fails to satisfy the Board in more than two subjects will be required to sit the entire supplemental examination.
(c) Failure to sit an examination, except in very special circumstances and at the discretion of the Academic Board will automatically result in failure in the subject or subjects concerned.
(d) Except in very special circumstances and at the discretion of the Academic Board, students will not be permitted to sit supplemental examinations unless they take the first sitting of the examination in its entirety.
(e) When a student fails to satisfy the Academic Board in a supplemental examination he shall not, be eligible, to proceed to the next year of the course. In the case of supplemental examinations, it will be at the discretion of the Academic Board to permit a student to carry not more than one subject from one year to the succeeding year. Where a student is carrying a subject in a particular year of his course he must sit the examination in the carried subject together with the normal examinations of that year. If he fails to satisfy the Academic Board in the carried subject he will be deemed to have failed his previous year examination and his current year examination will be disregarded. In these circumstances, whether, and under what conditions, the student may continue the course, will be determined by the Academic Board on the merits of each case.
(f) In the case of a student whose performance in most subjects is especially satisfactory but who fails to satisfy in not
more than one subject, it will be open to the Board to offset the particularly good performance against the deficiency. The Board will have particular regard to the extent of the deficiency and to its significance for the future progress of the student.

APPENDIX ‘B’

REGULATIONS OF THE ACADEMIC BOARD GOVERNING UNIVERSITY OF LONDON B.Sc. WHOLE-TIME COURSE/Ref. WSD

1. For admission to the Second Year of the Course:
   (a) The student must have sat, at the end of his First Year, the three subjects of his group at A Level in the GCE Examination and must obtain a pass at A Level in respect of at least two of these subjects, and at O Level in respect of the third.
   (b) Required A or O Level passes previously obtained in any of the group subjects will exempt from the necessity of sitting the A Level Examinations in those subjects at the end of the First Year, except in the case of an O Level not obtained on a A Level examination.
   (c) The student must have sat and passed at the end of his First Year College Examinations in Management/Economics and in one Foreign Language.
   (d) The student must have completed the matriculation requirements of the University of London.

2. To proceed to the Third Year, the student must
   (a) pass three subjects at Standard I at the B.Sc. Examination of the University of London;
   (b) pass College examinations in Management/Economics and in one Foreign Language.

3. To proceed to the Fourth Year, the student must
   (a) pass a College examination in each of the two specified subjects selected for the Degree;
   (b) pass College examinations in Management/Economics and in one Foreign Language.

4. The Academic Board may in special circumstances and at its discretion permit a student who fails to comply with the requirements set out above to proceed to the next year of the Course. In such cases the Board may specify such special requirements as it considers appropriate in each case.

7. The Academic Board has no discretion in the matter of rules determined by the Council of the College and which are stated on Page 12 on this Prospectus.
GENERAL INFORMATION

Day classes will normally be held between 9 a.m. and 6 p.m. each weekday except Saturday.
Evening Classes will normally be held from 7 p.m. to 10 p.m.
Office Hours: The Office will be open for enrolment of students from 9.30 a.m. to 12 noon, and 2 p.m. to 4 p.m., Monday to Thursday, Friday 9.30 a.m. to 11.00 a.m. and 3 p.m. to 4 p.m., and at special periods of the year at times which will be posted on the Notice Board.
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.