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Prospectus: Kevin Street

Kevin Street College

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1975

## College of Technology, Kevin Street : Prospectus 1975-1976

City of Dublin Vocational Education Committee

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# COLLEGE OF TECHNOLOGY

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KEVIN STREET DUBLIN 8

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CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE

---

PROSPECTUS 1975/76

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# CALENDAR

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1975—SEPT. Monday 1st  
Tuesday 2nd

Monday 8th

Monday, 22nd

OCT. Wednesday 22nd

NOV. Friday 7th

DEC. Wednesday 17th

1976—JAN. Wednesday 7th

MAR. Wednesday 17th

APR. Tuesday 13th

Monday 26th

MAY Thursday 27th

Friday 28th

JUNE Monday 7th

Thursday 17th

Friday 25th

College Re-opens.

Wholetime Day Courses open for Enrolment.

Wholetime Day Courses commence.

Evening Classes open for Enrolment.

Evening Classes commence.

Votive Mass. All day classes closed.

Presentation of College Diplomas and Certificates.

Final class meetings before Christmas Vacation.

All classes resume work after Christmas Vacation.

Public Holiday. College closed.

Final class meetings before Easter Vacation. All Evening Classes will terminate except where otherwise arranged.

Classes resume after Easter Vacation.

Ascension Day. All classes closed.

Classes for Whole-time Courses terminate

Bank Holiday. College closed.

Feast of Corpus Christi.

All classes closed.

Summer Term closes, except where otherwise arranged.

*The College is closed on all Bank Holidays not specified above.*

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# PROSPECTUS 75/76

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CITY OF DUBLIN  
VOCATIONAL EDUCATION  
COMMITTEE

## **COLLEGE OF TECHNOLOGY**

KEVIN STREET  
DUBLIN 8

Telephone : 757541-6  
755700 (Electrical Installation  
Department, Pleasants Street)

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

---

# COLLEGE COUNCIL

---

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Mr. P. Donegan  
Alderman Dr. John O'Connell, T.D.  
Professor David Simms  
Alderman James Tunney, T.D.  
Mr. Michael Donnelly  
Mr. Anthony Harkin  
Dr. Arthur K. Mills  
Mr. S. Cass  
Mr. Hugh de Lacy

Representative of Teaching Staff  
Representative of Students' Union

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# CONTENTS

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Calendar inside front cover
College Council page 2
List of Course Information pages 4-5
Staff page 6
General Notice to Students page 11
Examination Regulations page 12
Courses page 15
General Information inside back cover
Appendix A' (page 47)
Appendix 'B' (page 48)

# COURSES

## SCIENCE AND RELATED COURSES

B.Sc. (General) Degree	Wholetime	Ref. WSD	15
	Part-time	Ref. PSD	15
Advanced Science Courses	Part-time	Ref. PSI	16
	Evening	Ref. S3.2/3	16
Graduateship of the Institute of Physics	Part-time	Ref. PSIP	17
Technicians' Diploma Course in Applied Science	Wholetime	Ref. WAS	17
Home Economics Teachers' Course	Evening	Ref. S8	18
Science Laboratory Technicians' Course	Part-time	Ref. PSL	19
Glassblowing	Evening	Ref. G1	20
Diploma in Dietetics	Wholetime	Ref. WBD	20
Diploma in Food Science	Evening	Ref. S6	20
Course in Professional Photography	Part-time	Ref. PSP	21
Advanced Course in Professional Photography	Part-time	Ref. PSP4	21
Photographic Technicians' Certificate	Part-time	Ref. PSPT	22
Course for the Diploma of the Photographic Dealers' Association	Part-time	Ref. PSPD	23
Graduateship of the Royal Institute of Chemistry	Part-time	Ref. PSIC	23
Courses for Medical Laboratory Technicians	Wholetime	Ref. WML	23
Advanced Course in Medical Laboratory Sciences	Block Release	Ref. WAML	25
Special Courses for Fellowship of the Institute of Medical Laboratory Technology	Evening	Ref. S10	25
Course in Plastics	Part-time	Ref. PCP	25
Courses for Ophthalmic Opticians and Dispensing Opticians	Wholetime	Ref. WSO	26
Associateship of the Institute of Brewing	Part-time	Ref. PBA	27
Certificate for Medical Physics and Physiological Measurement Technicians	Part-time	Ref. PBE	27
Dental Craftsman's Course	Part-time	Ref. PSDC	27
Mathematics Courses	Evening	Ref. M1 to M6	28-29

## LANGUAGES:

Intensive Course in Technical French and Technical German	Part-time	Ref. GSAF & GSAG	28
Evening Courses in Modern Languages, German and French	Part-time	Ref. L.1/2/3	28

## ELECTRICAL, ELECTRONIC & TELECOMMUNICATIONS ENGINEERING & RELATED COURSES

Honours Diploma Course in Electrical Engineering	Wholetime	Ref. SEE	31
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Technician Engineering Diploma Course			
—Electrical Engineering	Wholetime	Ref. WEET	31
Electrical Technicians' Course	Block Release	Ref. SET	32
	Block Release	Ref. SEBT	33
	Evening	Ref. EI.1/2/3/4	33
Electrical Engineering	Evening	Ref. E5.1	34
	Evening	Ref. E5.2	34
Technician Engineering Diploma Course			
—Telecommunications & Electronics	Wholetime	Ref. WRTT	34
Part-time Course for Telecommunication			
& Electronics Technicians	Part-time	Ref. PRTT	35
Telecommunication Technicians' Evening			
Course	Evening	Ref. R6	35
Radio-Electronics Technicians' Course	Wholetime	Ref. WRS	36
Radio, Television & Electronics			
Technicians' Course	Evening	Ref. R5	37
Radio, Television & Electronics			
Mechanics' Course	Part-time	Ref. PRM	37
Marine Radar Maintenance Certificate			
Course	Wholetime	Ref. WRR	38
Marine Radio—Electronic Officers' Course	Wholetime	Ref. WRO	38
Communications Technicians' Course	Wholetime	Ref. WRC	39
Marine Radio Officers' Certificate Course	Evening	Ref. R3	39
Post Office Engineering Technicians' Course	Block release	Ref. SRPO	39
Electrical Housecraft	Part-time	Ref. PEH	40

#### COURSES FOR APPRENTICES AND CRAFTSMEN

Apprentice Electricians	Block release	Ref. SESB	41
	Day release	Ref. PEI	41
Electrical Installation & Maintenance	Block release	Ref. SEM	41
Electrical Installation Work	Block release	Ref. SEAS	42
Course for Personnel in the Electrical			
Industry	Evening	Ref. T1.1/2/3/4	42
Cable Jointing	Evening	Ref. T2.1	43
Electrical Technicians' Certificate (Part III)			
City & Guilds of London Institute	Evening	Ref. T3.1/2	43
Apprentice Electricians in the Aircraft			
Industry	Sandwich	Ref. SEAL	43
Cinema Apprentices	Day release	Ref. PRC	44
Bakery Technology Course	Wholetime	Ref. WBT	44
Bakery Practice	Day release	Ref. PSB	44
	Evening	Ref. B1.1	45
Confectionery Decoration	Evening	Ref. B1.2 & B1.3.	45

SPECIAL COURSES			46
Appendix "A"			47
Appendix "B"			48



# STAFF

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G. O'Hara, B.Comm., M.Econ.Sc.  
Mr. N. O'Hara, B.E., M.I.E.  
Mr. D. Start, B.A.

## 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 P. Masterson  
J. Connell R. Rogan  
R. Kelly H. Treacher

## Bakery

### STAFF LECTURER

D. Carey, N.B.Dip., Tech.Dip., C.&G.,  
M.I.B.B.

D. O'Brien, O.N.D. (Baking Tech.),  
Tech.Dip. C. & G.

### PART-TIME LECTURERS

S. Anthony J. Humphries  
R. A. D'Arcy

## Department of Electrical Installation

### HEAD

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

## Staff

### ASSISTANT HEADS

Matthew Farrell, C.Eng., M.I.E.E., M.I.E.I.  
Richard Kelly, B.A., T.Eng.(C.E.I.), M.I.T.E.,  
H.Dip.Ed.

### LECTURERS-IN-CHARGE

Ignatius Tighe  
Desmond McManus, F.T.C.(E.E.P.), C.&G.

### 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.  
J. Nolan, F.T.C.(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  
J. Brown  
J. Byrne  
P. Donoghue  
C. Harrington  
T. Mahon  
F. S. O'Connell  
W. B. O'Neill  
M. Roberts

## Physical Education Unit

### LECTURER-IN-CHARGE

S. Byrne, B.A., Dip.P.E.,  
Dip.Ed. London University.  
A. Byrne  
D. Byrne  
P. Connolly  
J. Delaney  
J. Donnelly  
Miss M. Gannon  
Mrs. R. Greenlee  
H. Keogh  
Miss M. Lalor  
D. Levey  
F. Spain  
D. Ward

## Chaplains

### CATHOLIC

Fr. T. Dougan, C.M.  
Fr. P. Dunne, S.J.  
Fr. B. Murray, S.J.  
Fr. T. E. O'Keeffe, S.J.

### CHURCH OF IRELAND

Rev. W. J. Smallhorne

## Administration

### SECRETARY/REGISTRAR

Miss Moira O'Donovan

## Secretary/Registrar's Office

### SENIOR CLERKS

James Boland, A.C.P.A.  
Edward J. Delaney

### SECRETARY TO THE PRINCIPAL

Miss Mary Browne

### SECRETARY TO THE REGISTRAR

Mrs. Eleanor Brett

### CLERICAL STAFF

Miss Maureen Beirne  
Miss Frances Durkan  
Mr. Michael Flaherty  
Mr. David Hughes  
Mr. Brendan Keegan  
Mr. Thomas Lyons  
Miss Mary Natty  
Mr. Lorcan O Raghallaigh  
Mr. David Spring

### LIBRARIAN

Patrick Johnston

### MAINTENANCE SUPERVISOR

J. Loftus

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# NOTICES TO STUDENTS

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## ADMISSION TO COURSES AND ENROLMENT

1. Enrolments for courses for the session 1975/76 will not be effected before September 2nd, 1975, but applications for admission should be made before Thursday, 31st July, 1975. The closing date for applications for Medical Laboratory Technicians Course is 31st May, 1975.
2. In the session 1975/76 the latest date for admission of students to classes commencing in the first term is October 17th, 1975. 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 14. Before acceptance of an application for admission to classes or courses, the applicant must attend in person for interview and the College must be satisfied as to his ability to benefit from the proposed classes or courses. Approval in this respect must be endorsed on the enrolment form by the Principal, Vice-Principal, appropriate Head of Department or the teacher designated for the purpose. The College may require an applicant to submit to and pass an entrance test and/or a suitability test before admitting him to any class or course.
4. Fees must be paid in full on enrolment. Only in special circumstances will payment by term be permitted. Students whose fees are to be paid by their employers should obtain from the College Office a guarantee form for signature by their employer and this must be presented before enrolment can be completed.
5. The sole proof of enrolment in any class or course in the College is the Official Receipt for the class or course fees paid. The Official Receipt must be shown to the

class teacher on first attendance at each class of the course. Teachers are authorised to refuse admission to classes of students who do not show their Official Receipt.

6. Fees are not refundable except where a class or course does not form.
7. On first enrolment all new students will be issued with an Identity Card. For this purpose and for the College records students must provide, at their own expense, *two* copies of a recent photograph (not returnable) of passport type and size. Students who were enrolled in the College in previous sessions must present the Identity Card previously issued to them for re-endorsement for the new session. Where Identity Cards have been lost or are no longer usable, two copies of a recent photograph must again be provided as in the case of first enrolment. The Identity Card is the property of the College and may be demanded by the College or its officers at any time.

**Students are therefore required to carry their Identity Cards with them while in 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

## Notices to Students

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 £3·00.

(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 26th, 1976, 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 13th, 1976 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 1975/76 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 (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 26th March, 1976, in the case of Summer examinations and after July 13th, 1976, 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 14th, 1976, in the case of Summer examinations or July 30th, 1976, 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 of 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.

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 47 and 48 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



## Notices to Students

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 B.Sc. Course and Honours Diploma Course 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.

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# COURSES IN SCIENCE

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## AND RELATED STUDIES

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### **B.Sc. Degree/Ref. WSD**

#### 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 14.

#### CURRICULUM

##### 1st Year

Students choose one of the following groups of three subjects :

(1) Physics, Chemistry, Mathematics or Biology.

(2) Physics, Mathematics, Applied Mathematics.

(3) Chemistry, Mathematics, Applied Mathematics.

All students study Industrial Studies and a Modern Continental Language.

No student will be allowed to take Mathematics or Biology in first year unless he can satisfy the College as to having previously studied that subject to an acceptable standard.

##### 2nd Year

Students choose three of the following subjects :

Physics I.

Chemistry I.

Mathematical Method I.

Statistics I.

Computation I or Applied Mathematics I or Pure Mathematics I.

All students continue their studies in Industrial Studies and a Modern Continental Language.

##### 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 :

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 48 of this Prospectus, as well as to the General Regulations governing College Examinations on page 12.

The College Examinations mentioned in these regulations will be held in Summer 1976 and where necessary Supplemental Examinations will be held in Autumn 1976.

#### AWARD OF DEGREE

The degree is awarded in each of the following categories : First Class Honours, Second Class Honours (Upper Division), Second Class Honours (Lower Division) and Pass.

#### COURSE FEE

£53.00 per academic year.

Enquiries should be addressed to the Department of Physics.

### **B.Sc. Degree Ref. PSD**

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

## Courses in Science

half-days), and three evenings per week during each academic year.

### MINIMUM QUALIFICATIONS FOR ADMISSION

Passes in the General Certificate of Education Examinations in :  
Mathematics at Advanced Level.  
Physics at Advanced Level.  
Chemistry at Advanced Level.  
English at Ordinary Level.

In certain circumstances two 'A' Level and three 'O' Level passes may be accepted. In addition, the College must be satisfied that the applicant's employment is such as will supplement his course studies with relevant practical experience.

### COURSE DETAILS

A choice of subject groups similar to those on the whole-time course WSD will be offered.

### EXAMINATIONS

The B.Sc. Standard I and Standard II (Final) Examinations of London University are taken at the end of the second and fifth years, respectively. Internal examinations may be set by the College at the end of the first, third and fourth years.

### FEE

Part I Course : £11·00 per academic year.  
Part II Course: £16·00 per academic year.

### DEPARTMENT IN CHARGE

Chemistry and Biology.

### 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, particularly for students who wish to proceed to higher studies in science.

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.  
Group 2 : Mathematics, Applied Mathematics, Physics.  
Group 3 : Physics, Chemistry, Biology.  
Evening S3.2 & S3.3—Only Group 1 & 2 subjects are provided.

### EXAMINATIONS

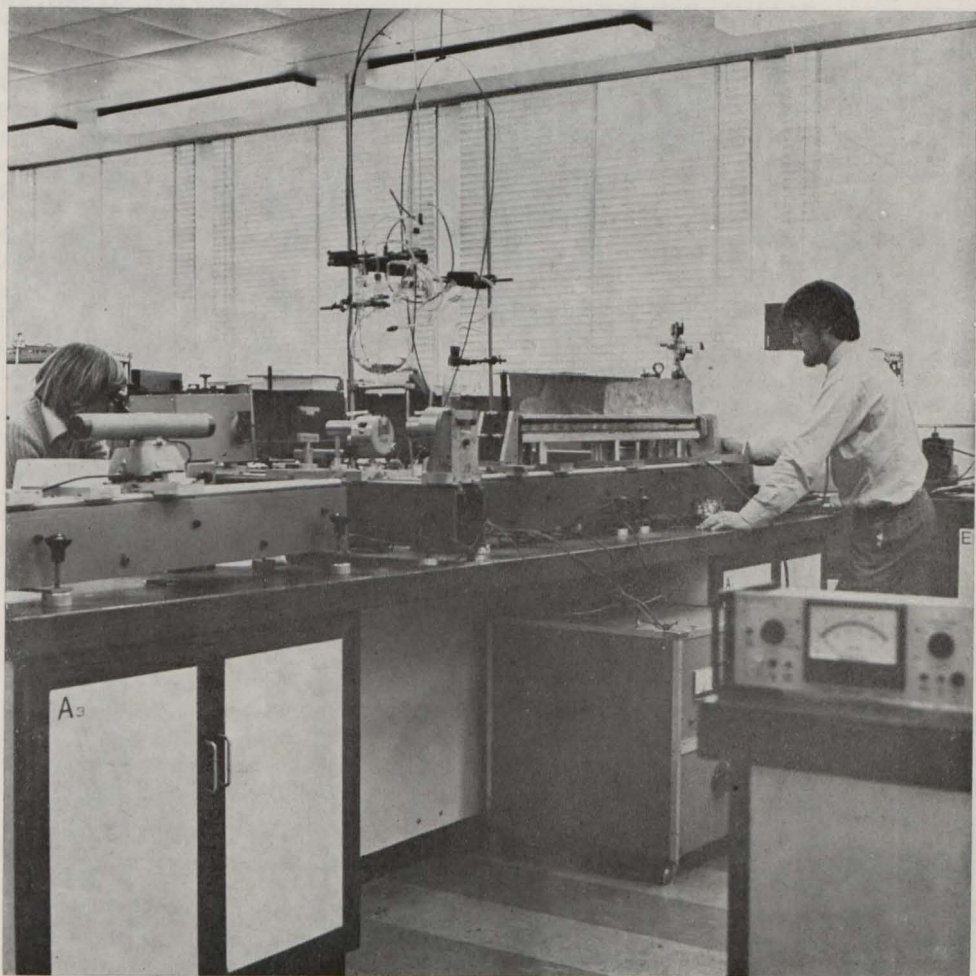
The General Certificate of Education examination at Advanced Level in the subjects of the Group. Internal examinations may be set by the College at the end of the first year of the evening courses. S3.2 students may also take portion of the Advanced Level examinations in Mathematics and Applied Mathematics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

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# PHYSICS

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The Physics Department is well equipped with modern apparatus and instrumentation and many of the staff are engaged on research, in some cases as part of an international team. The photograph shows research work in progress on a special form of laser developed in the College.

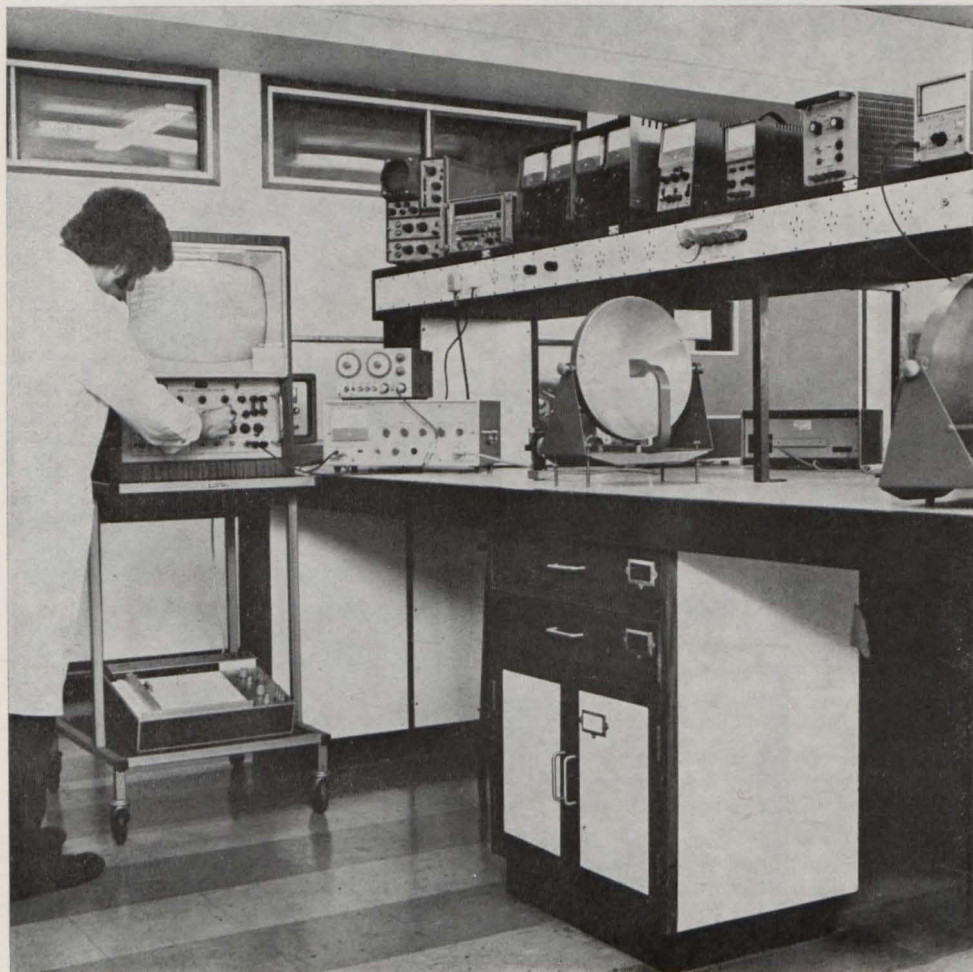


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# TELECOMMUNICATIONS AND ELECTRONICS

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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 setting up a multichannel display oscilloscope in a corner of the Communications Laboratory.



## Courses in Science

### FEES

Part-time: PSI—£11·00 per academic year.

Evening : S3.2 & S3.3—£8·50 per academic year.

### DEPARTMENT IN CHARGE

Chemistry & Biology.

### 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.
- (2) Solid State Physics.
- (3) Thermal and Statistical Physics.
- (4) Wave Motion and Electromagnetic Radiation and one optional paper chosen from Applied Optics or 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 Reduction, 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 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 14.

#### 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.
- (2) Applied Biology.
- (3) Applied Physics.

#### APPLIED CHEMISTRY OPTION

2nd and 3rd Years : Inorganic, Physical, Organic and Analytical Chemistry, Chemical and Plastics Technology,

## Courses in Science

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 Licentiatehip of the Institute after a period of approved experience. The course has also been approved by the Plastics Industries Association for the education and training of plastics technicians for Irish Industry.

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 and 3rd Years : Biology, Biochemistry, Microbiology, Hygiene, Mathematics, 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.

3rd Year : Electronics, Instrumentation and Control Theory, Materials Science, Mathematics, Applied Optics, Applied Heat and Acoustics, Vacuum Technology, 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 set in September. The College Diploma will be awarded to those students 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 12/13.

### 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.

### 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 & 9 on pages 12 & 13.

### FEE

£11·00 per academic year.

## Courses in Science

DEPARTMENT IN CHARGE  
Chemistry and Biology.

### Science Laboratory Technicians' Course /Ref. PSL

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.

#### NOTE

This course is under review and the information given here may be subject to alteration.

The Part I course provides a general introduction to Science Laboratory Technology and for some students may be regarded as complete in itself. It should also be regarded as the normal preparation for entry to the Part II course.

The Part II course is intended primarily for students who have passed the Part I examination and who wish to specialise in laboratory techniques relating particularly to (a) Physics, (b) Chemistry, or (c) Biological Sciences.

The Part III course is intended for Senior technicians who have a wide range of experience of laboratory management and procedures.

#### COURSE DURATION

Six years : one full day (or two half-days) and two evenings per week.

#### MINIMUM QUALIFICATIONS FOR ADMISSION

As stated at (b) in General Entry Requirements on page 14.

Subjects passed must include at least one science subject.

#### COURSE:

##### PART I

2 years : Industrial Studies, Mathematics, Chemistry, Physics, Biology and Laboratory Workshop Practice.

##### PART II

2 years : Laboratory Organisation and one of the following subjects in the Part II :

- (1) Physics Laboratory Techniques.
- (2) Chemistry with Biochemistry Laboratory Techniques.
- (3) Biological Sciences Laboratory Techniques.

##### PART III

2 years : Science Laboratory Administration and Scientific Instrumentation.

#### EXAMINATIONS

The examinations of the City and Guilds of London Institute for the Part I Science Laboratory Technician's Certificate is taken at the end of the second year and the Part II Science Laboratory Technician's Certificate at the end of the fourth year. The Part III examination will be taken at the end of the sixth year.

Students successfully completing the Part III examination and who have attained the Part II Certificate by examination may apply for the award of the Full Technological Certificate of the City and Guilds of London Institute.

Internal examinations will be set by the College at the end of the first, third and fifth years, respectively.

#### FEE

£11.00 per academic year.

DEPARTMENT IN CHARGE  
Chemistry and Biology.



## Courses in Science

### **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/Ref. WBD**

This course is designed to provide an integrated training in the sciences basic to the study of dietetics, with particular reference to nutrition and its application to normal nutrition and therapeutic dietetics. The Course is open to male and female students. Students who qualify are equipped to work in many different spheres in the nutritional field : therapeutic dietitians ; dietitian-catering officers ; industry ; advisory work ; dietetic surveys ; lecturing and research.

#### **DURATION**

4 years. This includes six months' practical work 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, Catering Administration and Practical Training. Continental Language and Industrial Studies are included in each year of the Course.

### **DIPLOMA**

The Dietetic Diploma is recognised by the British Dietetic Association for full membership.

#### **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 supplementary examinations in September, if necessary.

The attention of students is particularly directed to Examinations Regulations 5, 6, 7, 8 & 9 on pages 12 & 13.

#### **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.

The Diploma is accepted by the Institute of Food Science and Technology as qualifying for Licentiatehip.

## 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 12 & 13.

### 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 14.

### 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 12 & 13.

### 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 14.

### 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 12 & 13.

## 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 14.

### 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

Physics.

### 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.

### COURSE DURATION

Four years part-time. 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 Technology.

### COURSE DURATION

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

### MINIMUM QUALIFICATIONS FOR ADMISSION

Leaving Certificate with Mathematics, English and an approved Science subject. In addition to the above those seeking admission to the Wholetime 2nd and 3rd year must be in appropriate employment in an approved medical or veterinary laboratory.

### COURSES

Wholetime WML :

1st year : Mathematics, Physics, Chemistry, Biology, 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 :

Wholetime (WML) :

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 ~~one~~ 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 Technology as exempting from its Intermediate Examination.

#### FEES

Wholetime WML : 1st year £38·00 per academic year.

2nd and 3rd years : £11·00 per course.

## Courses in Science

### LECTURER-IN-CHARGE

Dr. Doreen K. Nolan,  
L.M., L.R.C.P.I., L.R.C.S.I., D.P.H.

### DEPARTMENT IN CHARGE

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 Technology 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 Technology /Ref. S10

An advanced course in Medical Laboratory Sciences for students taking special fellowship examination of the Institute of Medical Laboratory Technology. 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 Technology or Diploma in Medical Laboratory Sciences of the Department of Education.

### EXAMINATION

Special Fellowship examination of the Institute of Medical Laboratory Technology.

### COURSE 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.

## Courses in Science

### 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 14. 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 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.

Second Year: Statistical Methods, Anatomy and Physiology, Biochemistry, Physical and Geometric Optics, Optical Dispensing, Visual Optics, 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 in the Autumn. The attention of students is particularly directed to Examinations Regulations 5, 6, 7, 8 and 9 on pages 12 and 13.

### 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.

## 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 14.

#### **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 : Basic 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.

3rd Year : Physiology, Physiological Measurement Techniques, Biophysics, Bio-engineering Techniques, Radioisotopes Techniques, Computation Techniques.

#### **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.

#### **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.



## Courses in Science

### COURSE DURATION

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

### ADMISSION REQUIREMENTS

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

### COURSE

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

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

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

### EXAMINATIONS

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

### 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 (1½ hours per week for first two years ; 2½ 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 (1½ 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 Mathematics (Papers I and III) at end of first year;

G.C.E. "A" Level Pure Mathematics 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 Applied Mathematics 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.

## **Courses in Science**

### **COURSE DURATION**

Four Years : two evenings (6 hours) per week. Many qualifications allow exemption from Part I and enable students to join the second year of the course.

### **EXAMINATIONS**

First Year : The Preliminary Examination of the Institute of Statisticians at the end of the first year.

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

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

Fourth Year : The Stage III Examination of the Institute of Statisticians at the end of the fourth year.

### **FEE**

£11·00 per academic year.

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# ENGINEERING COURSES

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## ELECTRICAL, ELECTRONIC, TELECOMMUNICATIONS & RELATED COURSES

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### 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.

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 14.

### COURSE

First year : Mathematics, Physics, Applied Mathematics, Electricity, Engineering Drawing, Materials and Processes, Engineer in Society and Continental Language.

Second year : Mathematics, Physics, Applied Mathematics, Electricity, Engineering Drawing, Materials and Processes, Engineer in Society, Electronics and Continental Language.

Third year : Mathematics, Physics, Electrical Measurements, Field and Circuit Theory, Control Systems, Communications

Engineering or Electrical Power, Engineer in Society, Electronics and Continental Language.

Fourth year : Mathematics, Electrical Engineering Materials, Field and Circuit Theory, Control Systems, Communications Engineering or Electrical Power, Engineer in Society, Electronics 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 in the Autumn.

The attention of students is particularly directed to Examinations Regulations 5, 6, 7, 8 and 9 on pages 12 and 13:

### 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

## Engineering Courses

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 14.

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

First Year : Mathematics, Applied Mechanics, Physics, Engineering Drawing, Mechanical Workshop, Principles of Electricity, Electronics, Electrical Practice, Economics and a Continental Language.

Second year : Mathematics, Thermodynamics and Hydraulics, Properties of Materials, Electrical Measurements and Testing, Circuit Theory, Electrical Machines, Electronics, Generation and Transmission, Economics, Distribution and Utilisation, and a Continental Language.

Third year : Mathematics, Projects, Control Systems, Circuit Theory, Electronics, Generation and Transmission, Economics and a Continental Language. 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 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 and 9 on pages 12 and 13. 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;
- (2) have obtained a pass in the Leaving Certificate (see page 14).

### COURSE CONTENT

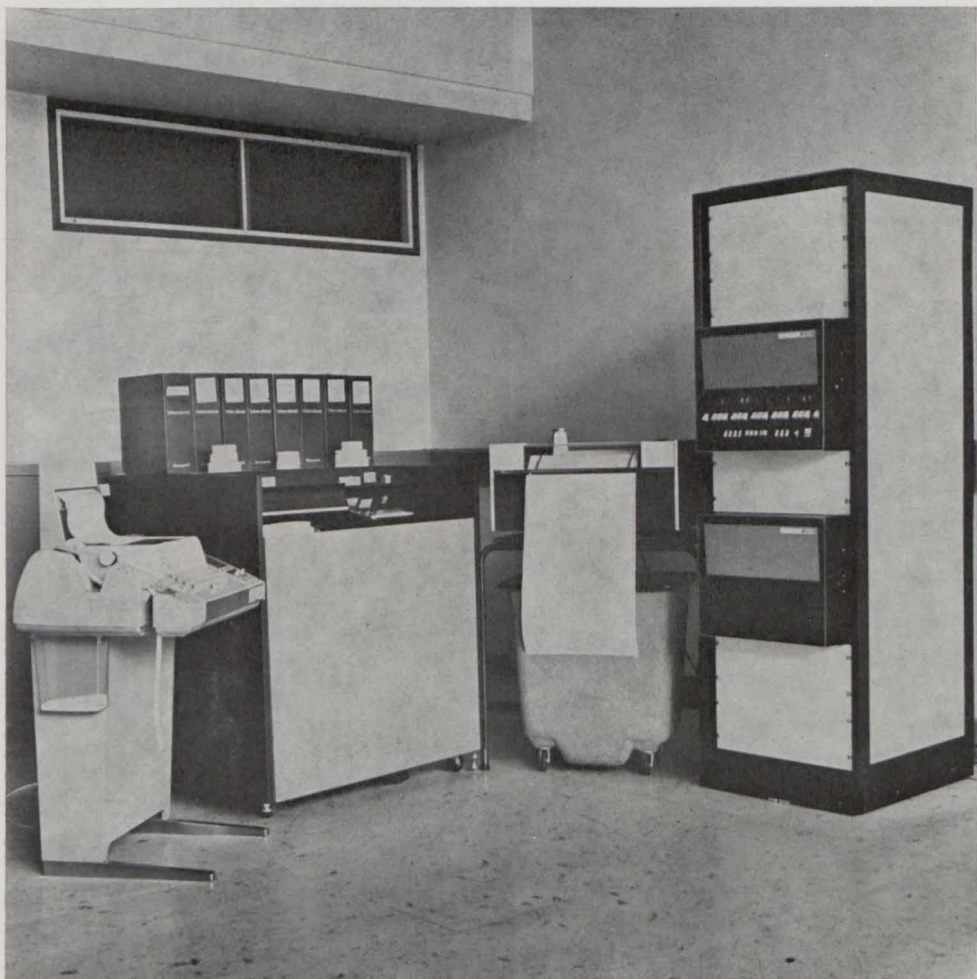
Year 1 : Mathematics, Applied Mechanics, Physics, Principles of Electricity, Electrical Power, Industrial Studies, Continental Language.  
Years 2 and 3 : Mathematics,

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# THE COMPUTER

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The College possesses a Honeywell H316 digital computer system including a high-speed paper tape reader and high-speed punch, an incremental graph-plotter, and a twin-disc backing store. The machine uses a 16 bit word and has a nominal 16,000 word main memory. The associated software includes not only the normal Assembler, but also full Fortran IV capabilities. There is a comprehensive subroutine library containing a wide variety of mathematical and statistical subroutines, making it ideal for scientific work. The College also has a number of small analogue computers.

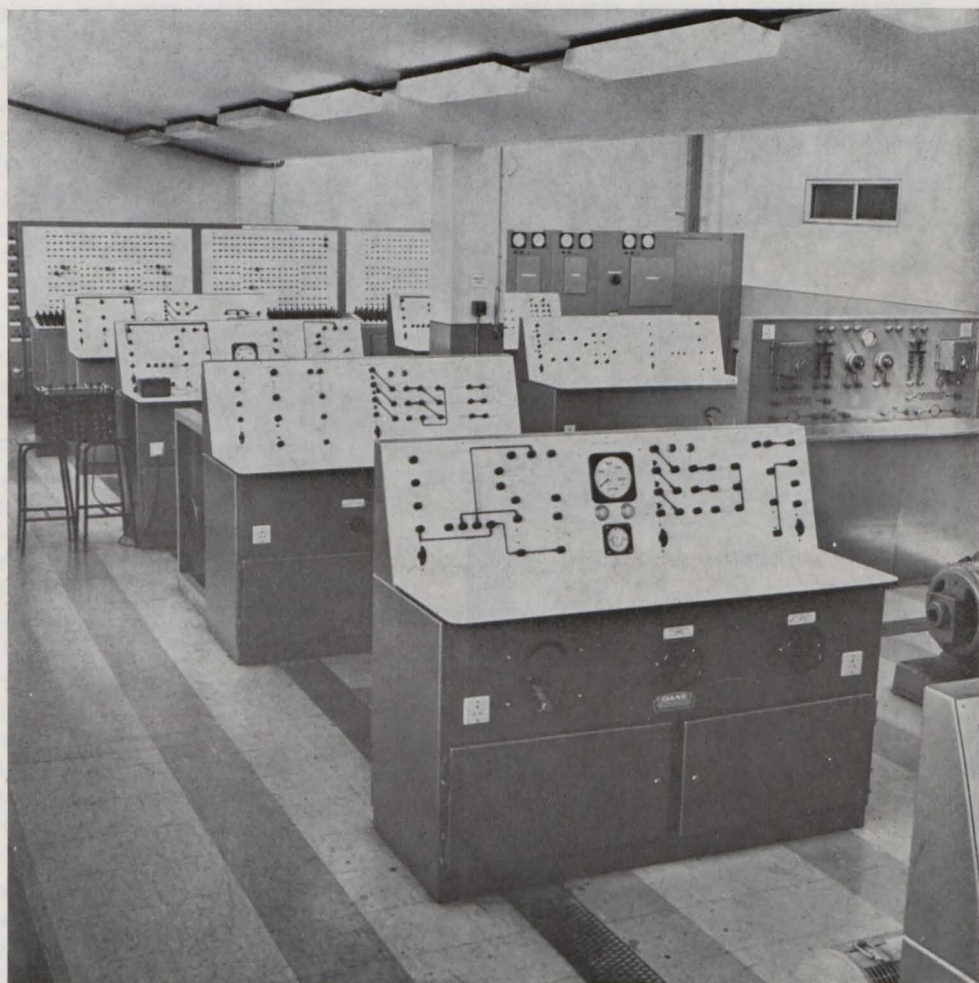


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# THE ELECTRICAL MACHINES LABORATORY

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The Electrical Machines Laboratory is the largest laboratory in the College. It contains examples of all types of rotating electrical machines, motors and generators, both A.C. and D.C., as well as universal machines. Each machine has its own connection and control desk to facilitate setting up experiments on the machine characteristics and performance. An elaborate interconnection system allows supplies generated in this laboratory to be transmitted to other laboratories in the College. The laboratory also has a high voltage facility.



## Engineering Courses

Thermodynamics, Hydraulics, Electrical Power, Control Systems, Measurement and Instrumentation, Industrial Electronics, Circuit Theory, Industrial Studies, Continental Language.

### 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

First year : Mathematics, English, Principles of Electricity, Electrical Power, Applied Mechanics.

Second year : Mathematics, English, Field and Circuit Theory, Generation and Transmission, Machines, Distribution and Utilisation, Electrical Measurement.

### EXAMINATIONS

Year 1 : College examinations.

Year 2 : The final examination in Electrical Engineering Practice of the City and Guilds 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 Engineering Practice examinations of the Department of Education and of the City and Guilds of London Institute. It also provides for the additional subjects Industrial Electronics and Instrumentation and Control Systems.

### COURSE DURATION

Four years : three evenings per week.

### 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

Year 1 : Mathematics, Physics, Principles of Electricity.

Year 2 : Mathematics, Physics, Principles of Electricity, Instruments and Measurements.

Year 3 : Mathematics, Field and Circuit Theory, Distribution and Utilization, Industrial Electronics, Instrumentation and Control Systems.

Year 4 : Mathematics, Generation and Transmission, Industrial Electronics, Instrumentation and Control Systems.

Laboratory work is included in all years of the course.



## Engineering Courses

### EXAMINATIONS

Year 2 : The final examination in Advanced Electrical Technology and Instruments and Measurements (City and Guilds).

Year 3 : Final examinations in Distribution and Utilization of Electrical Energy (City and Guilds), Electrical Engineering Practice Section B and Advanced Electro-technology (Department of Education), Advanced Mathematics (Department of Education).

Year 4 : Final Examinations in Generation and Transmission of the City and Guilds of London Institute and Electrical Engineering Practice Section A of the Department of Education.

### 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.

### COURSE

The course will run for three or four evenings per week.

### Ref. E5.2

This is a two-year Evening Course covering some of the subjects of the Council of Engineering Institutions Part II Examinations for students who have completed an approved Technician Engineering Course.

### ENTRY REQUIREMENTS

Students must have completed a 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 wholtime course designed to provide a broad and thorough education for students intending to pursue careers as technicians in telecommunications and electronics.

### COURSE DURATION

Three years : five days per week.

### MINIMUM QUALIFICATION FOR ADMISSION

As stated at (b) in General Entry Requirements on page 14.

### 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).

## Engineering Courses

### 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 12 and 13.

### 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 14.

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.

3rd year : Mathematics, Circuit Theory, Electronics, Radio Communication, Microwave Principles, Measurements.

4th year : Mathematics, Circuit Theory, Electronics, Radio Communication, Digital Principles, 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.

## Engineering Courses

### 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 14.

### COURSE

1st year : Mathematics, Applied Mathematics, Physics, Electricity, Radio-Electronics, Engineering Drawing, Workshop Practice, Industrial Studies.

2nd year : Mathematics, Physics, Electric Circuits, Electronics, Radio Communication, Industrial Instrumentation and Measurements, Industrial Studies.

3rd year : Mathematics, Electric Circuits, Electronics, Radio Communication, Industrial Instrumentation and Control Systems, Industrial Studies.

In addition, a Continental Language (French/German) is included in all years of the course.

### EXAMINATIONS

Internal College Examinations will be taken at the end of first and second years, and the Diploma Examination at the end of the third year.

The attention of students is particularly directed to Examinations Regulations 5, 6, 7, 8 and 9 on pages 12 and 13.

### FEE

£28.00 per academic year.

### DEPARTMENT IN CHARGE

Telecommunications Engineering.

## Engineering Courses

### 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.

### 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.

## Engineering Courses

### 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 February.

### COURSE DURATION

Sixteen weeks : five days per week.

### ADMISSION REQUIREMENTS

Prospective students are required to hold the P.M.G. First or Second Class Certificate of Proficiency in Radiotelegraphy, or show evidence of having an equivalent standard of

knowledge in Electricity and Radio Communication.

### COURSE

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

### FEE

£28.00 per course.

### DEPARTMENT IN CHARGE

Telecommunications Engineering.

### **Marine Radio-Electronics Officers' Course/Ref. WRO**

This wholtime course prepares students at the end of two years of study for the Certificate of Proficiency Examination in Radiotelegraphy and Telephony conducted by the Department of Posts and Telegraphs. This Certificate is required for employment as a Radio Officer in the international mercantile marine services. In addition the course covers the requirements of the Telecommunications Technicians' Certificate Examinations (Course 270/271 Parts I and II) of the City & Guilds of London Institute and students are required to sit these examinations.

The third year prepares students for Course 271 Part III examinations of the City & Guilds of London Institute (Advanced Studies in Telecommunications and Electronics), leading to 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 14.

## Engineering Courses

### COURSE

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

The following Course 271 Part III subjects are offered :

Advanced Telecommunication Principles,  
Advanced Communication Radio,  
Advanced Microwave Principles,  
Advanced Radar and Navigational Aids.

### FEE

£48·00 per academic year.

### DEPARTMENT IN CHARGE

Telecommunications Engineering.

### Communications Technician Course /Ref. WRC

This is a wholetime course for those intending to qualify as technicians in the field of telecommunications.

At the end of the first year of the course students will take the Part I examination of the City and Guilds of London Institute Course 271 (Telecommunication Technicians) : at the end of the second year of the course the Part II examinations will be taken, and the Part III examination will be taken at the end of the third year, leading to the Full Technological Certificate in Telecommunications.

### COURSE DURATION

Three years : five days per week.

### MINIMUM QUALIFICATIONS FOR ADMISSION

As stated at (b) in General Entry Requirements on page 14.

### COURSE

The course includes Mathematics, Applied Mathematics, Electricity, Electronics, Radio Communication, Engineering

Drawing, Industrial Studies and a Continental Language (French or German).

In the final year the following Course 271 Part III subjects are offered : Advanced Telecommunication Principles, Advanced Communication Radio, Advanced Microwave Principles, Radar and Navigational Aids.

### FEE

£28·00 per academic year.

### DEPARTMENT IN CHARGE

Telecommunications Engineering.

### Marine Radio Officers' Certificate Course/Ref. R.3

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

### COURSE DURATION

Three years : four evenings (12 hours) per week.

### MINIMUM QUALIFICATIONS FOR ADMISSION

Leaving Certificate in Mathematics and English or equivalent. Applicants may be required to sit an entrance test.

### COURSE

Technical Electricity, Radio Communication, Morse and Regulations with related practical training.

### FEE

£16·00 per academic year.

### DEPARTMENT IN CHARGE

Telecommunications Engineering.

### Post Office Engineering Technicians' Course/Ref. SRPO

This is a block release course conducted by arrangement with the Department of

## Engineering Courses

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.

## Electrical Housecraft/Ref. PEH

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

### COURSE DURATION

One year (October-May): one or two afternoons per week as arranged.

### ADMISSION REQUIREMENTS

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

### COURSE AND EXAMINATIONS

The course is designed to enable students to take the Electrical Housecraft Certificate Examination of the Electrical Association for Women, London.

### FEE

£11·00 per course.

### DEPARTMENT IN CHARGE

Electrical Installation.

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# COURSES

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## FOR APPRENTICES AND CRAFTSMEN

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### **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 :  
Mathematics, English and General Studies, Drawing, Engineering Science, Workshop Practice, Practical Installation, Electrical Science, Electrical Craft Practice, Workshop Technology, Social Science.

Third Year : Mathematics, English and General Studies, Planning of Electrical Installations, Practical Installation, Electrical Workshop Projects, Electrical Science, Electrical Craft Practice, Tutorial, Social Science.

Fourth Year : Mathematics, General Studies, Planning of Electrical Installations, Electrical Workshop Projects, Electrical Science, Electrical Craft Practice, Tutorial, Social Science.

#### **EXAMINATIONS**

Department of Education—Trade and Technical Examinations : City & Guilds of London Institute—Course B and C Certificate Examinations.

#### **DEPARTMENT IN CHARGE**

Electrical Installation.



## Courses for Apprentices and Craftsmen

### Electrical Installation Work

/Ref. SEAS

This Course provides, in their first three years of apprenticeship, technical education for apprentice electricians who receive their workshop practice in an approved training centre. No workshop practice is provided on the Course.

#### COURSE DURATION

Three years, consisting of four weeks per term per year, for each year of the course. During the remaining eight weeks per term (approximately) students attend for 3 hours per week for assimilation studies.

#### 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.

## Courses for Apprentices and Craftsmen

### **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**

Transmission and Distribution of Electrical Energy, Utilisation of Electrical Energy.

#### **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

## Courses for Apprentices and Crafts men

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.

**FEE**  
£6·00 per academic year.

**DEPARTMENT IN CHARGE**  
Electrical Installation.

### **Bakery Technology Course** /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 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 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**  
D. Carey, N.B.Dip., Tech.Dip.C&G., M.I.B.B.

### **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.

## Courses for Apprentices and Craftsmen

### EXAMINATIONS

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

### FEE

£6.00 per academic year.

### TEACHER IN CHARGE

D. Carey, N.B.Dip., Tech.Dip.C&G., M.I.B.B.

### **Bakery Practice (Journeyman)**

/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.

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# SPECIAL COURSES

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## IN ENGINEERING AND SCIENCE AND PHYSICAL EDUCATION

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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 1975/76. 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).

## 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.	Volley Ball.
Life Saving.	Indoor Football.
Sub Aqua.	Soccer.
Water Polo.	Gaelic Games.
Gymnastics.	Rugby.
Badminton.	Hockey (Ladies).
Fencing.	Hockey (Mixed).
Judo.	Orienteering.
Golf Tuition.	First Aid.
Basketball.	Referees' Courses.
Trampolining.	Lectures in P.E.

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

## 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 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, in the case of final examination, be eligible for the course award, or, in the case of earlier examinations, to proceed to the next year of the course. In the case of supplemental examinations other than final supplementals, 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) It will be open to the Board 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, to offset the particularly good performance against the deficiency and to its significance for the future progress of the student.

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 in this Prospectus.

## 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.

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# GENERAL INFORMATION

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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.

Enrolment subsequent to 17th October, 1975, may be made only on the Authority of the Principal.

Interviews with the Principal can be arranged only by appointment.

Except during enrolment periods, members of the teaching staff will not be available for interviews except at times which will be indicated on application to the College Office. For Class and Room Timetables, students should consult the College Notice Boards.