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Prospectus: Kevin Street

Kevin Street College

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1982

## Prospectus: 1982-83

City of Dublin Vocational Education Committee

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**CDVEC**

City of Dublin Vocational Education Committee

Dublin Institute of Technology

**COLLEGE OF TECHNOLOGY  
KEVIN STREET, DUBLIN 8**

**PROSPECTUS  
1982-83**

Colste Gairm-Oideachais Chathair Bhaile Atha Cliath

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# CALENDAR

# FÉILIRE

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## SESSION 1982-83

### SEPTEMBER 1982

Wednesday 1st

#### Term 1.

Commencement of Session.

Monday 6th

Interviews/Registration for Wholetime day courses commences.

Commencement of Apprenticeship Courses except where otherwise arranged. Evening Courses open for Interviews/Registration.

Monday 20th

Wholetime and part-time courses commence, except where otherwise arranged.

Monday 27th

Evening Courses commence, except where otherwise arranged.

### OCTOBER 1982

Wednesday 20th

Votive Mass to mark the commencement of the Academic Year.

Monday 25th

Public Holiday — College closed.

Friday 29th

Presentation of Awards.

Final date for registration of all students.

### DECEMBER 1982

Friday 17th

Final class meetings before Christmas Vacation.

### JANUARY 1983

Monday 4th

#### Term 2.

All classes resume.

### FEBRUARY 1983

Tuesday 1st

Last day for receipt of applications for admission to Wholetime courses in the Session 1983/'84

Wednesday 16th

Closing date for entry for College Summer Examinations.

### MARCH 1983

Thursday 17th

Public Holiday — College closed.

Tuesday 29th

Final class meeting of second term.

### APRIL 1983

Monday 11th

#### Term 3.

All classes resume after Easter Vacation.

### MAY 1983

Monday 16th

Commencement of College Summer Examination Programme.

### JUNE 1983

Friday 17th

All classes terminate except where otherwise arranged.

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ABOVE DATES MAY BE ALTERED WITHOUT NOTICE

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# PROSPECTUS 1982-83

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COISTE GAIRM-OIDEACHAIS  
CHATHAIR BHAILE ÁTHA CLIATH

CITY OF DUBLIN VOCATIONAL  
EDUCATION COMMITTEE

INSTITIÚD TEICNEOLAÍOCHTA  
BHAILE ÁTHA CLIATH

DUBLIN INSTITUTE  
OF TECHNOLOGY

COLÁISTE TEICNEOLAÍOCHTA

**COLLEGE OF  
TECHNOLOGY**

KEVIN STREET  
DUBLIN 8

Telephone: 757541-6

Principal: F. M. Brennan,  
DipEE, CEng, MIEI, MIERE, AMIEE

*150 Whelton Lect.*

*190 p.*

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# RÉAMHEOLAIRE 1982-83

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Chief Executive Officer: W. J. Arundel, BComm, HDipEd

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College of Technology, Bolton Street.

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College of Commerce, Rathmines.

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## COMHAIRLE AN CHOLÁISTE

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D. Hayes, TechDipAppSc.  
J. Keogh, CGLI(Physics Tech).  
Ann Murphy, TechDipAppSc.  
J. Robinson, CGLI(Physics Tech).  
Ann Scully, TechDipAppSc.

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FICI, MIBioll.

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Ivan Shirley, FIMLS  
John Tuttlebee, PhD  
Rena Willoughby, AIMLS  
Robert Woods, PhD  
Edwin Wright, FIMLS  
W. Noel White, FIMLS

#### VISITING LECTURERS

Terence G. Brien, MSc, PhD  
Mary Brody, MSc  
Derek Cullen, FIMLS  
Cecily Cunningham, MSc  
F. R. Falkiner, PhD  
Rosemary Freaney, PhD  
Alan Keenan, PhD  
Professor John Devany  
Shaun McCann, MD  
Joseph McPartlin, MD  
Barry McSweeney, MSc  
Professor D. J. Hingerty  
Professor I. Temperley  
Catherine Mullins, MSc  
Gerard O'Donnell, FIMLS  
Desmond Kenny, MSc MRCPATH  
Liam English FIMLS  
Derek Magee, FIMLS  
Thomas Moloney, FIMLS  
Marie Moore, AIMLS  
Deirdre Ni Bhroin, BSc  
Gerard O'Connor, FIMLS

#### TECHNICAL STAFF

Lindsay Abbott, TechDipAppSc  
Patricia Daly, TechDipAppSc  
E. Doody, TechDipAppSc  
Kathleen Johnson, Laboratory Aide  
Mary Kavanagh, Laboratory Aide  
Breege Keenan, CGLI(Bioc)  
Rosaleen Lawlor, Laboratory Aide  
R. Leydon, CGLI, AIST

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Patricia Seaman, RT(CSLT) Canada,  
IMLS member  
Kathleen Walsh, Laboratory Aide  
Daireen Ward, TechDipAppSc  
D. White, Laboratory Aide

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## DEPARTMENT OF ELECTRICAL ENGINEERING

### HEAD

Thomas Short, CEng, PhD, MIEE

### ASSISTANT HEADS

John J. Farrell, CEng, MSc, MIEI,  
MIEE

Jonathan C. Fisher, BA, BAI, HDipEd, PhD

### DEPARTMENT SECRETARY

Miss Maureen Beirne

### STAFF LECTURERS

M. Connell, MSc, AMIEE

F. Devitt, BE

J. Flood, BE, MSc

W. T. C. Grimson, BA, BAI, MSc

R. Hayes, DipEE, MSc

M. O'Halloran, BE(Elect), AMIEE

K. Sullivan, DipEE, MSc, MIEI

### PART-TIME LECTURERS

P. Cadden, AMIEE

C. Cullinane, CEng, MIEE

T. Doyle, BA, BAI

J. Fennell, MIEI

P. Kavanagh, BSc(Eng), DipEE

E. Kennedy, DipEE

T. McGibney, AMIEE

B. McKenna, DipEE, AMIEE

P. Martin, DipEng, BSc(Eng), MIEI

P. Morley, BA, BAI

J. Normile, BE, MEngSc

W. O'Dwyer, AMIEE

J. Ryan, BSc, DipEE

P. Smith, DipEng, BSc(Eng)

J. R. Wormold, CEng, MIMechE

## TECHNICAL STAFF

T. Kelly, TechEngDip(ElectEng)

L. Quinn, FTC(EEP), GradITE

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## DEPARTMENT OF TELECOMMUNICATIONS ENGINEERING

### HEAD

Bartholomew J. O'Connor, CEng, MIERE

### ASSISTANT HEADS

Christopher Cowley, CEng, MIERE' AMIEE

Matthew Rice, CEng, MIERE, MIEI

### DEPARTMENT SECRETARY

Miss Mary O'Brien

### STAFF LECTURERS

C. Bruce, DipTecSc, DipEE, CEng, MIEE

T. Clancy, GradIERE

J. Dalton, BE

C. Downing, BE, MEngSc, MIEI

P. Fannin, HND, DipEEE, MSc, AMIEE

M. Gara, C & G FTC(Telecom)

D. Harley, TEng(CEI), FSERT

PMGCert, Radar Cert

T. Lawless, FSERT, TEng(CEI),

CGLI(FTC)

E. R. Lynch, BE(Elect)

J. Mahon, TEng(CEI), FSERT,

PMGCert, Radar Cert

P. Murray, MIERE

T. P. O'Brien, MIERE

S. O'Donnell, MIEEE, FTC(CGLI)

B. A. O'Sullivan, MSc, PhD, AMIEE

J. Russell, PMGCert, Radar Cert.

E. G. Seale, GradIERE

M. Tully, GradIERE

### PART-TIME LECTURERS

D. P. Beswick, CGLI

Martin Burke, GradIERE

Fredrick Cleary, C & G FTC

Ciaran Creamer, BScAppSc

Mark Damery, BSc, DipEE

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Bernard Donne, BSc (SCI)  
Vincent Donne, BSc(Eng)  
Gerald Farrell, BE  
M. O'Fiannachta, BEChEng, MIEE  
M. Flood, GradIERE  
Brian Garry, BSc Dip EE  
Declan Gibbons, DM  
Michael Goggin, ChEng, MIEE, MIEI  
R. Halpin, CEng, MIERE, C & G, FTC  
Liam Hamilton, BSc(Eng)  
Tim Hartigan, DipTEng  
Ambrose Jameson, DipTEng  
John Declan Kavanagh, DipTelEng  
Raphael Kelly, BE, BA, HDip  
Moran McKnight  
J. M. MacManus, BE  
Noel Magee  
Kevin Murphy  
Richard O'Brien, BSc Elec  
David O'Sullivan, MIERE  
Patrick Rainsford, BE, MIEI, MIEEE  
Barry Reynolds, BE  
James Roche, DipEE, BSc  
James Sailsbury, BE, MSc  
F. Sloane  
Harry Smith  
Victor P. Thorne, PMF Radar Cert  
Paul Tobin, DipEE, MIEI, C&G, FTC  
Paul Walsh

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## DEPARTMENT OF LANGUAGES AND INDUSTRIAL STUDIES

### HEAD

Miss Kathleen M. Tierney, MA

### ASSISTANT HEADS

Miriam Broderick, MA, HDipEd,  
DipSupLingAppl  
Dermot Campbell, MA

### DEPARTMENT SECRETARY

Miss Caroline Mulligan

### STAFF LECTURERS

Christina Albertini, MA

Josianne Deloire, Licence es Lettres,  
Maitrise es Lettres Modernes  
Christopher Farren, ACIS, ACCA, ACPA,  
AIIS  
Marie Guilfoyle, BA, HDE  
Brendan Halligan, BA, MA  
Seamus Lynch, MEconSC, MA, BComm,  
DPA  
Jennifer Moreton, BA, HDipEd  
Kathleen Muldowney  
Janet Ryan, MA, HDipEd  
Mary Ryan, BA, HDipEd  
Daragh Smyth, BSocSc, DipEd

### PART-TIME LECTURERS

Jutta Kankel Breatnach, Dipl - Ubers  
Donal Carey, BA  
E. V. O'Cleirigh, BE, BSc  
Francoise Dee, Licence es Lettres  
Mary Faulkner, BA, HDipEd  
Jan Florian, BA  
Marie-Annick Gash, MA  
Rhaya Wall, Maitrise-es-lettres  
Linda McCarthy, BA, HDipEd  
Michael Mulreany, MA, HDipEd  
Mary O'Brien, BA, HDipEd  
Almut Schlepper, Staatsexamen  
Desmond Stark, BA, Barrister-at-Law  
Collette Weaire, MA

### TECHNICAL STAFF

Anthony Breen

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## MECHANICAL WORKSHOPS AND DRAWING UNIT

### LECTURERS-IN-CHARGE

Patrick Connell (Workshops)  
David Naessens (Drawing)

### STAFF LECTURERS

B. Goulding  
R. Hatton

### PART-TIME LECTURERS

J. Connell  
T. Daly

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A. Davy  
M. Duggan  
P. Gallagher  
T. Lavery  
E. Oakes  
S. O'Flynn  
L. Phillips

**TECHNICAL STAFF**

P. O'Reilly  
M. Scanlon

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**BAKERY UNIT**

**STAFF LECTURERS**

Daniel T. Carey, NBDip, TechDip, C & G  
MIIB  
W. Graham, Full TechDip  
E. Kane  
D. O'Brien, NBDip, Full TechDip C & G  
MIIB

**PART-TIME LECTURERS**

S. Anthony  
R. A. D'Arcy  
J. Humphries  
W. Fitzsimons  
P. Maguire

**TECHNICAL STAFF**

T. Ahern, Inter C & G  
J. O'Neill

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**DEPARTMENT OF ELECTRICAL  
INSTALLATION**

**HEAD**

Desmond McManus, FTC(EEP), C & G

**ASSISTANT HEADS**

G. Murphy, BA, MEd(Hon), FTC(EEP),  
C & G, AMITE, HDipEd

J. O'Donnell, BA, TEng(CEI), MITE,  
HDipEd.

**LECTURER-IN-CHARGE**

Ignatious Tighe

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**DEPARTMENT SECRETARY**

Mrs. Maureen Holland

**STAFF LECTURERS**

E. Barber, Final (EEP), C & G  
J. Boyle, TEng (CEI), MIElecIE, FTC  
(EEP) C & G  
R. Byrne, BA, FTC (EEP), C & G  
HDipEd  
G. Caffrey, TEng (CEI), MITE  
J. Cahill, TEng (CEI) Mite  
T. Colohan, TEng (CEI), MITE, FTC  
(EEP) and (EIW), C & G  
P. Cosgrove, FTC (EEP), C & G  
J. Davis, FTC (EEP), C & G  
T. Dillon, BA, FTC (EEP), C & G, HDipEd  
M. Farrelly, Tech (CEI), MSERT, C & G  
T. Grandison, MITE, FTC (EEP), C & G  
V. Kenny, TEng (CEI) MITE  
S. Lyons, MITE, Final (EEP), C & G  
M. Maher, TEng (CEI), CMITE, FTC  
(EEP), C & G  
R. McCann, BA, Final (EEP) Dept of Ed,  
HDipEd  
R. McCarthy, FTC (EEP), C & G  
T. Nugent, Final (EEP), Dept of Ed  
J. O'Brien, FTC(EEP), C & G  
K. O'Connell, FTC (EEP), C & G  
S. Sludds, BA, FTC (EEP), C & G,  
HDipEd  
W. Traynor, FTC (EEP), C & G, TEng  
(CEI), MITE

**PART-TIME LECTURERS**

P. Behan  
J. Byrne  
B. Casey  
T. Carton  
K. Cullen  
J. Deasy  
M. Dooley  
G. Eastwood  
M. Evans  
D. Fallon  
P. Gough  
A. Grant

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P. Green  
G. Hartigan  
A. Jameson  
K. Kelly  
J. Kenny  
D. McDonnell  
T. McKiernan  
N. Minihan  
J. Mooney  
B. Murphy  
K. J. Murphy  
K. O'Farrell  
C. Quinn  
M. B. Roberts  
D. Sheedy  
L. Trundle

#### TECHNICAL STAFF

J. Butler  
T. Clerkin  
J. Comerford  
P. Harding  
L. Manning  
N. Masterson  
E. Murphy

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#### PHYSICAL EDUCATION UNIT

LECTURER-IN-CHARGE  
S. Byrne, BA, DipPE, DipEd  
London University

R. Bushell  
A. Byrne  
J. Delaghey  
R. Greenlee  
C. Hardy  
N. Keisser  
J. McMahan  
L. Methá  
Á. O'Brien

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#### CHAPLAINS

CATHOLIC  
Fr. B. Murray, SJ  
Fr. R. Geary, SJ

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#### ADMINISTRATION

##### SECRETARY/REGISTRAR

David C. Spring

##### SENIOR CLERK – ACCOUNTS OFFICE

Brian Tuohy

##### SENIOR CLERK – REGISTRATIONS/ ADMISSIONS OFFICE

Francis Hayden

##### EXAMINATIONS SECRETARY

Miss Mairead Mullen

##### SECRETARY TO THE PRINCIPAL

Mrs. Barbara Wilkinson

##### SECRETARY TO REGISTRAR

Miss Joan McElwain

##### CLERICAL STAFF

James Behan  
Maurice Boland  
Lillian Colley  
Mrs. Gemma Eldon  
Hazel Horan  
Mrs. Lillian Nolan  
Jacinta O'Brien  
Margaret O'Keefe  
Colm O'Regan

##### TECHNICAL STAFF

Elma Flanagan  
A. Cromie  
C. Ingè, MIRT, (C & G)

##### LIBRARIAN

Thomas O'Connor

##### MAINTENANCE SUPERVISOR

Vacant

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

**Admission to  
Courses and  
Enrolment**

1. Enrolment for courses for the session 1983-'84 will not be effected before September 1st 1983 but applications for admission should be made before Tuesday, 1st February 1983.
2. Application for the Courses listed below should be made to the CAO (Central Applications Office), Tower House, Eglinton Street, Galway on the appropriate form available on request from the CAO. The CAO handbook giving details of application procedures and closing dates is issued with the application form. Mature and overseas students, together with students applying for the second or subsequent years of a degree course should apply direct to the College and not to the CAO.

College Code	CAO Code	Course Description
SEE	FT 21	Honours Diploma in Electrical Engineering
WSAD	FT 22	Diploma in Applied Sciences
WBD	FT 23	BSc (Human Nutrition)

3. In the session 1983-84, the latest date for admission of students to classes commencing in the first term is 28th October, 1983. Only in exceptional circumstances will applicants be admitted after that date and a late entry fee of £30 will be payable. Under no circumstances will such applicants be admitted after 31st December, 1983.
4. Intending students should note the statement on Entry Requirements for admission to the College on page 25. Before acceptance of an application for admission to classes or courses, the applicant may be required to attend in person for interview and the College must be satisfied as to his/her ability to benefit from the proposed classes or courses. Approval in this respect must be endorsed on the enrolment form by the Principal, Vice-Principal, appropriate Head of Department or the teacher designated for the purpose. The College may require an applicant to submit to and pass an entrance test and/or a suitability test before admitting him/her to any class or course.

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5. Fees must be paid in full on enrolment and may be paid by cash, bankers draft or money order. Cheques will only be accepted when written on production of a Bank Cheque Card. Only in special circumstances will payment by term be permitted.
  6. **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.**
  7. Fees are not refundable except where a class or course does not form.
  8. On first enrolment new students will be issued with an Identity Card. For this purpose and for the College records students must provide, at their own expense, three 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, three copies of a recent photograph must again be provided as in the case of first enrolment. Students should note that a charge of £1 will be made for replacement of Identity Cards.  
**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.**
  9. Overseas students must have achieved a standard in English sufficient to enable them to pursue the course of study in their chosen field successfully. In all cases these students must make application through their Embassy accredited in Ireland.
  10. Change of address or place of employment should be reported to the Secretary/Registrar immediately.
  11. The Vocational Education Committee may change any or all of the syllabus, the day and time of any class and may cancel classes where the enrolment or attendance is considered inadequate. If for some urgent reason a teacher cannot attend, classes may be cancelled without notice.
  12. No exchange of classes may be made after enrolment without the written consent of the Principal, on the recommendation of the Head of Department.
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**Attendance,  
etc, at classes  
and courses**

1. 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.
2. 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.
3. 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 Workshop. Safety spectacles must be worn in all Chemistry Laboratories.
4. 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.
5. Apprentices and employers are asked to note particularly that from 1st September 1976, details of the employment and the attendance of all apprentices enrolled in release courses are being made available to AnCO, the Industrial Training Authority, whether or not the apprentices are registered with AnCO.

**Examinations**

1. 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.
  2. 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.**
  3. 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.
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4. 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.

5. The College is a recognised centre for many external examinations including the Department of Education and 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 the College Notice Boards. Applications after the relevant closing dates will be accepted only on payment of a Late Entry Fee as stipulated by the regulations of the Examination Institute concerned. Where students are in doubt regarding examination arrangements they should make enquiry through the Secretary/Registrar's Office.

6. (i) Each student on a course having mandatory College examinations must make application on or before Wednesday, 16th February, 1983 to sit the appropriate Summer examinations and pay the appropriate examination fee, where applicable, when making such application. Where supplemental examinations are held a similar application must be made on or before July 14th, 1983 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 27.

(ii) 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.

(iii) The fees for the College Examinations for the session 1982/83 are: £15 for all Certificate and Diploma examinations or any part thereof;

(iv) Applications for entry to examinations received after 16th February, 1983 in the case of Summer examinations and after 15th July, 1983, in the case of Autumn examinations, will be considered by the College only where they are accompanied by a Late Entry Fee of £15. Under no circumstances will applications for entry to examinations be considered if received later than Wednesday, 30th March, 1983, in the case of Summer examinations or Wednesday, 3rd August, 1983, in the case of Autumn examinations.

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

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7. 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.

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

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

9. It is the responsibility of each student to ascertain the dates, times and venues of examinations by consulting the appropriate timetables published on the College notice boards. The College does not undertake to provide notices or reminders regarding examinations to individual students. In the case of any uncertainty with regard to examination arrangements enquiries should be made as early as possible in the General Office.

10. Where illness prevents a student from sitting an examination or any part of an examination of the College a Medical Certificate must be submitted to the College Secretary/Registrar not later than the 4th day following the first occasion on which the student is absent. Medical Certificates received later than this will not normally be accepted. **Illness will not be accepted as an excuse for absence from examination unless certified as specified above.**

11. Students wishing for a recheck of an examination result should make formal written application to the Principal within 7 days of the receipt of their results, specifying the grounds on which the request is made.

12. Appeals against examination results (as distinct from rechecks) must be lodged with the Principal within two weeks of the issue of provisional results. Applicants should complete the Official Form, available from the Examinations Office and pay the fee, £15.00 (non-returnable).

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## Scholarships

Students normally resident in the City of Dublin and who wish to compete for a Scholarship from the City of Dublin Vocational Education Committee should complete the official application form. These forms are available from the College Secretary/Registrar. Please note that the section on the application form which refers to documentation on public examinations and course acceptance must be signed by an authorised member of the College Staff. The CLOSING DATE for applications to the City of Dublin Vocational Education Committee is FRIDAY, 30th September, 1982. Vocational Education Committees throughout the country offer scholarships to students attending certain full-time technician and other advanced level courses at this College.

Interested students should make immediate application to the Chief Executive Officer of their LOCAL Vocational Education Committee.

## Degrees from Dublin University

Students who obtain the Diploma in Electrical Engineering (Course SEE) or the Diploma in Applied Sciences (Course WSAD) are eligible for the award to the appropriate B.Sc. Degree from Dublin University. A fee is payable to Dublin University by those who present themselves for the degree award. All communications in respect of the award of the above degrees should be addressed to: The Proctor's Office, West Theatre, Trinity College, Dublin 2.

The BSc (Human Nutrition) course is run jointly by the Dublin Institute of Technology (College of Technology, Kevin St.) and University of Dublin (Trinity College).

## General

1. Students must at all times obey the lawful instructions of lecturers and other members of the College staff. Misconduct in the College or its grounds may lead to suspension or expulsion. All lecturers are authorised to enforce immediate disciplinary measures in respect of students whom they find violating the regulations of the College or otherwise misconducting themselves.
  2. Students are liable for the cost of repair or replacement of College property damaged by them.
  3. Students are not permitted to smoke in the College Classrooms, Laboratories, Lecture theatres, workshops, library, gymnasium, swimming pool changing rooms, or Examination Hall.
  4. Students are not permitted to wear 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 £5.00 per session. This includes a deposit of £4.00, returnable only if the locker key is surrendered within seven days of the expiry of the period for which the locker has been granted.
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5. Parking of pedal and motor cycles in the space provided in the College grounds is normally permitted. Except with 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.

#### **Office Hours**

The Office will be open for enrolment of students as follows:—  
Monday — Thursday: 9.30 a.m./12 noon; 2.00 p.m./4.00 p.m.  
Friday: 11.00 a.m./12 noon; 3.00 p.m./4.00 p.m. and at special periods of the year at times which will be posted on the notice board. Except during enrolment periods, members of the staff will not be available for interviews or consultations except by prior appointment.

#### **The Library**

The College Library is normally open between the hours of 9.30 a.m. to 9.30 p.m. (Monday to Friday). From the middle of the second term, it is normally open also from 9.30 a.m. to 1.00 p.m. on Saturdays.

#### **Entry Requirements**

In general terms, the minimum academic requirements for entry to courses will be as follows:

(a) For Diploma Course in Applied Sciences and Honours Diploma 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 of a Science Subject) in the Leaving Certificate examination.

Pass levels in four other subjects in the Leaving Certificate examination (English and Maths must be among the subjects passed in all cases).

(b) For the BSc (Human Nutrition), Leaving Certificate with passes in at least six subjects including English and Maths. Grade C or higher in at least THREE higher papers which must include Chemistry.

(c) 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 examination.

(d) Students holding the Senior Trade Certificate of the Department of Education with one endorsement in mathematics or a science subject

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will satisfy the entrance requirements for courses in the Dublin Colleges which specify a pass in the Leaving Certificate Examination as the entrance requirement. Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education will be an acceptable equivalent.

(e) Attainment which the College regards as equivalent to those specified in (a) and (b) will be acceptable.

(f) Applicants may be required to undergo Selection Tests, and admission will be dependent on satisfactory results in these tests and on satisfactory interviews as well as the foregoing.

(g) 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.

(h) 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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## SCIENCE AND RELATED COURSES

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### S9 ANIMAL TECHNOLOGY/NURSING

This is a two year evening course for animal technicians, and nurses who are employed in approved veterinary institutions. Classes are held concurrently for anatomy and physiology and separate classes are held for each group in the specialised aspects of animal technology and nursing.

At the end of the first year animal technicians sit the Intermediate Examination of the Institute of Animal Technicians. After a further two years study (one year course) they sit the Associateship Examination of the Institute of Animal Technicians.

Animal nurses sit Part I of the registration examination for Registered Nursing Auxiliaries of the Royal College of Veterinary Surgeons at the end of the first year. At the end of the second year they may complete Part II of this examination, thus qualifying as Registered Animal Nursing Auxiliaries.

**Course Fee** £50 per academic year.

**Department in Charge** Biological Sciences.

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### WSAD DIPLOMA IN APPLIED SCIENCES

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

Those who successfully complete this course are eligible for the award of the B.Sc. (Applied Sciences) Degree of the University of Dublin. Both the Diploma and the Degree may be awarded with honours classification.

Students who are awarded the Diploma in Applied Sciences with Physics as a subject qualify for Associate Membership of the Institute of Physics and after obtaining the appropriate work experience become eligible for Corporate Membership of the Institute.

The Course is recognised for the purpose of the Local Authorities Higher Education Grants scheme.

**Course Duration** Four years; 5 days (26-29 hours per week).

**Qualifications for Admission** As stated at (a) in General Entry Requirements on page 25.

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<b>Course</b>	<p><b>First Year</b> Mathematics, Physics, Chemistry, Management Studies and a Modern Continental Language.</p> <p><b>Second Year</b> Students select two subjects from Mathematics, Physics and Chemistry and in addition continue their studies in Management Studies and the Modern Continental Language taken in First year. Students selecting Physics and Chemistry will also be required to take Ancillary Mathematics in Second Year.</p> <p><b>Third Year</b> Students continue their studies in the subjects taken in Second Year.</p> <p><b>Fourth Year</b> Each student will continue with the subjects taken in Third Year.</p>
<b>Examinations</b>	Examinations will be set by the College at the end of each year of the course. These examinations will be held in the Summer. Supplemental examinations will be held where appropriate in the Autumn. The attention of the students is particularly directed to Examination Regulations on pages 21, 22 and 23.
<b>Vacation Training</b>	Students are recommended to undertake suitable employment with Industrial or Scientific enterprises and Laboratories during the Summer Vacation periods. The College will assist when possible in arranging this vacation work.
<b>Course Fee</b>	£200 for 1st & 2nd yr. £160 for 3rd & 4th yr.
<b>Department in Charge</b>	Physics.

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## **WAS**

### **TECHNICIANS' DIPLOMA IN APPLIED SCIENCE**

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

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

**Course Duration** Three years full-time

**Qualifications for Admission** As stated in (c) in General Entry Requirements on page 25.

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**Course****First 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, Mathematics, Industrial Studies and a Modern Continental Language.

The Diploma is approved by the Royal Society of Chemistry as exempting from Part 1 Theory Papers of the Graduateship.

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

**Applied Biology Option**

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

3rd year: Biochemistry, Microbiology, Applied Biology, Biological Application of Radioisotopes, Biometry, Industrial Studies and a Modern Continental Language.

**Applied Physics Option**

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

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 held where appropriate in September. The College Diploma will be awarded to those who complete the course in a satisfactory manner and pass the examination at the end of the Final Year. The attention of students is particularly directed to the Examination Regulations on pages 21 to 23.



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**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** £100 per academic year.

**Department in Charge** 1st year of course: Physics.  
2nd and 3rd years: Chemistry, Biological Sciences or Physics as appropriate.

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**PBA ASSOCIATESHIP OF THE INSTITUTE OF BREWING**

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 22.

**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** £70 per academic year.

**Department in Charge** Biological Sciences.

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**WMT TECHNICIANS DIPLOMA IN COMPUTER SCIENCE**

This course is designed to meet the requirements of students seeking training as Technicians with a theoretical and practical knowledge of computers, computer programming and the computing methods in use in industry, commerce and research. The course has sufficient depth in mathematics and statistics for those entering this field at higher technician level.

**Course Duration** Three years full time.

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<b>Qualifications for Admission</b>	Pass in English, Pass in Maths (or Applied Maths). Pass in three other subjects in the Leaving Certificate examination.
<b>Course</b>	The subjects of each year of the course are: — Mathematics, Computer Science, Numerical Methods, Statistics, Business Mathematics, Physics, Industrial Studies and a Modern Continental Language.
<b>Examinations</b>	College examinations will be set in all subjects at the end of each year. These examinations will be held in the Summer and Supplemental examinations will be held where appropriate in the Autumn. The College Diploma will be awarded to students who complete the course satisfactorily and pass the required examinations.
<b>Vacation Employment</b>	Students will be encouraged to undertake suitable employment in industry or commerce during part of the summer vacation.
<b>Course Fee</b>	£100 per academic year.
<b>Department in Charge</b>	Mathematics.

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## WTD

### DENTAL TECHNICIANS COURSE

This course is currently at the design stage and is intended to replace the course for Dental Craftsmen.

Information on the revised arrangements may be had on application to the Secretary, Department of Physics.

**Department in Charge:** Physics.

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## WBD

### BSc (HUMAN NUTRITION)

This is a course run jointly by the Dublin Institute of Technology (College of Technology, Kevin Street) and the University of Dublin (Trinity College).

The course is designed to provide an integrated training in the science of nutrition and dietetics and its application to human health and well-being, both at the individual and community level.

**Course Duration** Four years full-time with an academic year of approximately 30 weeks distributed over three terms. This includes six months (24 weeks) clinical

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experience in the Dietetic Department of a recognised teaching hospital and also a period of practical experience in the administration of food services and other professional experience (e.g. dietary survey work etc.)

**Qualifications For Entry**

(a) Leaving Certificate with passes in at least six subjects including English and Mathematics. Grade C or higher in at least THREE higher course papers which must include Chemistry.

or

(b) An equivalent qualification.

**Course**

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 stages include the study of Applied Nutrition, Medicine, Dietetics and Diet Therapy, Administration of Food Services and Practical training.

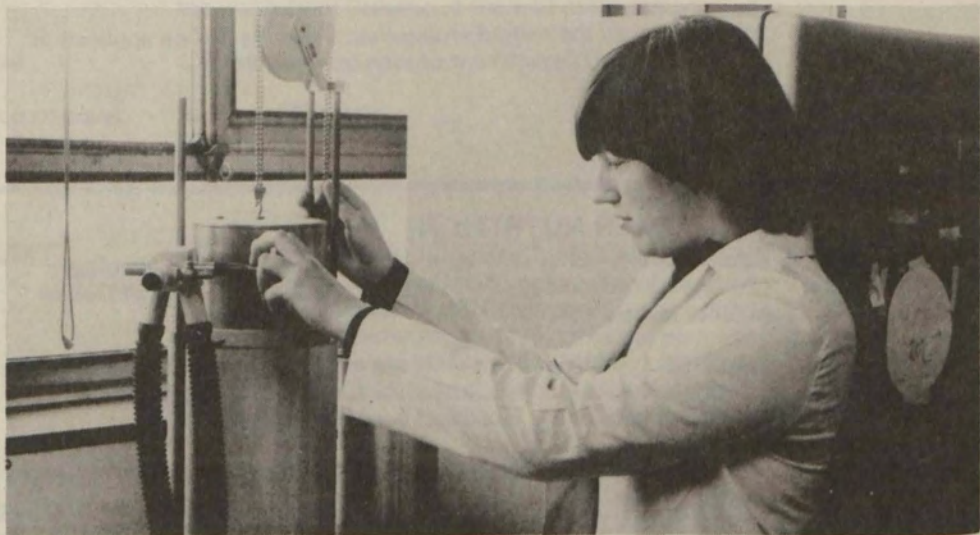
**Examinations**

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 the Summer term. Supplemental examinations may be held in the Autumn.

**Fee**

£420.

All enquiries should be directed to the Biological Sciences Department, College of Technology, Kevin Street.



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## DIPLOMA IN DIETETICS AND NUTRITION

2nd Year Fee — £200

3rd Year Fee — £160

4th Year Fee — £55

This Diploma Course is in the process of replacement by the Degree Course outlined above.

**Department  
in Charge:** Biological Sciences.

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## S6 DIPLOMA IN FOOD SCIENCE

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

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

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

**Course** The course deals with the chemistry and microbiology 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.

**Examinations** The College sets its own examinations for the award of the Diploma. The attention of students is particularly directed to Examination Regulations on pages 21 to 23.

**Fee** £50 per academic year.

**Department  
in Charge** Biological Sciences.

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## PSIP GRADUATESHIP OF THE INSTITUTE OF PHYSICS

This is a part-time course extending over two Academic years and leading to the Graduateship of the Institute of Physics Part 11 Examination. Graduateship of the Institute of Physics is recognised as equivalent to an honours degree in Physics.

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**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 Street.

**Course Duration** Two year part-time.

**Course Content** The Graduateship Part 11 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 paper chosen from:  
Applied Optics  
Nuclear Instrumentation and Technology.

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

**Fee** £70 per academic year.

**Department in Charge** Physics.

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## PSIC

### GRADUATESHIP OF THE ROYAL SOCIETY OF CHEMISTRY

This is a part-time course leading to Graduateship of the Royal Society 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 Society of Chemistry.

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**Examination** Students may sit the Part I examination at the end of the second year and Part II at the end of the fourth year. Students work is assessed at all stages of the course. Students are advised to familiarise themselves with the regulations of the Royal Society of Chemistry.

**Fee** £70 per academic year.

**Department in Charge.** Chemistry

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## **S11 INSTITUTE OF MEAT**

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

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

**Fee** £50 per academic year.

**Department in Charge** Biological Sciences.

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## **WML MEDICAL LABORATORY TECHNICIANS**

The following information refers to the existing course structure which is currently under review.

The course provides education in the appropriate Sciences and Technology for those seeking a career as Technicians in Medical or Veterinary Laboratories.

The Course is designed to enable students ultimately to become Members of the Institute of Medical Laboratory Sciences.

**Course Duration** Three years — five days per week for the full academic session in the first two years, in the third year the students undergo training in approved laboratories.

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<b>Qualifications for Entry</b>	Leaving Certificate with Mathematics, English and an approved Science subject. It should be noted that, because of the large number of applicants for this course, those who are admitted normally have a Leaving Certificate performance exceeding the minimum requirement stated above.
<b>Course</b>	<p><b>First Year</b>            Mathematics, Physics, Chemistry, Biology, Medical Laboratory Sciences, Bioethics, Language.</p> <p><b>Second and Third Years</b>            Medical Laboratory Sciences*, Chemistry, Biology, Biochemistry, Mathematics, Industrial Studies, Language.</p> <p><i>*Includes Histopathology, Haematology, Blood Transfusion, Microbiology, Clinical Chemistry.</i></p>
<b>Examinations</b>	Examinations are held at the end of each year. The certificate of the College is awarded on the result of the College examinations at the end of the 3rd year and on the successful completion of the in-service training component of the course.
<b>Fee</b>	1st and 2nd year £100 per academic year. 3rd year £70.00.
<b>Lecturer-in-Charge</b>	L. Lawlor, F.I.M.L.S.
<b>Department in Charge</b>	Biological Sciences.

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## WAML

### MEDICAL LABORATORY SCIENCES — ADVANCED

An advanced course for students of Medical Laboratory Science who are employed in approved medical or veterinary laboratories. The following information refers to the existing course structure which is currently under review.

<b>Course Duration</b>	Two year block-release of 12 weeks duration in each year.
<b>Qualifications for Admission</b>	The Certificate in Medical Laboratory Sciences with full credits in Physics and Mathematics, or equivalent.
<b>Course Core</b>	All students will study core subjects and select one specialist option. Chemistry, Biochemistry, Physiology, Physics, Management Studies.

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<b>Specialist subjects</b>	Microbiology, Histopathology, Haemathology and Blood Transfusion, Clinical Chemistry.
<b>Examinations</b>	Students are examined at the end of both years 1 and 2 in all the core subjects and in their chosen specialist subjects.
<b>Fee</b>	£70 per course.
<b>Department in Charge</b>	Biological Sciences.

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## **S10 FELLOWSHIP OF THE INSTITUTE OF MEDICAL LABORATORY SCIENCES**

An advanced course in Medical Laboratory Sciences for students taking the special fellowship examination of the Institute of Medical Laboratory Sciences. Courses are offered subject to sufficient enrolment.

**Course Duration** Two years. This course is approved by the Institute of Medical Laboratory Science.

**Qualifications for Admission** Associateship of the Institute of Medical Laboratory Sciences and Diploma in Medical Laboratory Sciences or equivalent. The course is based on the study guide published by the IMLS on a part-time day, evening and short block basis. All students will study Bio-Medical Science and one specialist subject. The following specialist options are available subject to adequate enrolment.

- Bacteriology
- Blood Group Serology and Transfusion
- Clinical Chemistry
- Haematology
- Histopathology
- \*Immunology

### **Project**

A practical project must be carried out and thesis presented, 2,500 — 3,000 words.

**Examinations** Continuous assessment:  
Multi-choice, multi-part, essay questions will be set during the two years. Final examination: Special Fellowship of the Institute of Medical Laboratory Sciences. The College is recognised as a centre for the new approved course of the Institute of Medical Laboratory Sciences.

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**Course Fee:** £270 per academic year. This combined fee covers the Day-Release and/or the Block Release course and also provides for the one-week Specialist Block.

**Course Organiser** Mr. T. Scott, FIMLS

**Department in Charge** Biological Sciences.

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## **PBE**

### **MEDICAL PHYSICS AND PHYSIOLOGICAL MEASUREMENT TECHNICIANS**

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.

**Course Duration** Three years, three nights per week.

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**Qualifications for Admission** As stated in (c) in General Entry Requirements on page 25. Prospective students are also required to be in an appropriate form of employment.

**Course Content** **First Year**

Physics, Chemistry and Biology. Introduction to Electricity, Physiology and Data Presentation.

**Second Year**

Electricity and Electrical Measurement, Human Physiology and Biochemistry, Radiation Physics, Physical Principles of Instrumentation and Data Interpretation.

**Third 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** £70 per academic year.

**Department in Charge** Physics.

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**S12** **MEDICAL SECRETARIES**

This is a one year evening course for administrative staff in the Health Services. Classes are held on two evenings per week. The aim of the course is to familiarise administrative personnel with Medical Terminology, Health Service Administration and Medical Records Procedures.

**Fee** £50 per academic year.

**Examinations** It is envisaged that the Institute of Hospital Administrators will be the Examining Body.

**Department in Charge** Biological Sciences.

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**WSO** **DIPLOMA IN OPHTHALMIC OPTICS**

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

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the Act. Holders of the Diploma in Ophthalmic Optics must also satisfy the Council of the Association of Ophthalmic Opticians, Ireland, on their clinical competence.

Persons interested in a course in Optical Dispensing should consult the Lecturer-in-Charge.

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

**Qualifications for Admission** To be eligible for admission to the Course, applicants must hold the Leaving Certificate in at least six subjects including English and Mathematics, with Grade C or higher in at least two higher course papers. Science subjects are an advantage and it should be noted that those who are admitted normally have a Leaving Certificate performance exceeding the minimum requirement stated above. Equivalent qualifications are also accepted.

**Course** **First Year**  
Mathematics, Physics, Chemistry, Biology, Workshop Practice, Technical German and Industrial and Related Studies.

**Second Year**  
Statistical Methods, Anatomy and Physiology, Biochemistry, Physical and Geometric Optics, Optical Dispensing, Visual Optics, Technical German 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, Technical German and Industrial and Related Subjects.

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

**Examinations** Examinations will be set by the College at the end of each year of the course. These will be held in the Summer. Repeat examinations will be held where appropriate in the Autumn. The attention of students is particularly directed to Examination Regulations on pages 18 to 20.

**Fee** £200 for 1st & 2nd yrs. £160 for 3rd & 4th yrs.

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

**Department in Charge** Physics.

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**PSPT****PHOTOGRAPHIC TECHNICIAN'S CERTIFICATE**

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 (c) in General Entry Requirements on page 25.

**Course****First Year**

General Photographic Theory, Mathematics, Physics, Chemistry, Industrial Studies, Graphic Design.

**Second Year**

General Photographic Theory, Physics, Chemistry, Industrial Studies, Engineering Practice, Graphic Design.

**Third 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 Examination Regulations on pages 21 to 23.

**Fee** £120 per academic year.

**Department in Charge** Physics.

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**PCP****PLASTICS**

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.

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**Course Duration** One year — one week full-time in September followed by one afternoon and evening per week during the remainder of the academic year.

**Qualifications for Admission** As stated at (c) General Entry Requirements on Page 25. Applicants must be employed in the plastics industry.

**Fee** £70 per academic year.

**Department in Charge** Chemistry

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## **PSP                    PROFESSIONAL PHOTOGRAPHY**

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 (c) in General Entry Requirements on page 25.

**Course**

**First Year**  
Photographic Theory and Practice, Chemistry, Physics, Technical German, Industrial Studies, Graphic Design.

**Second Year**  
Photographic Theory and Practice, Physics, Technical German, Industrial Studies, Graphic Design.

**Third 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 Examination Regulations on pages 21 to 23.

**Fee** £120 per academic year.

**Department in Charge** Physics

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**PSP4****PROFESSIONAL PHOTOGRAPHY — ADVANCED**

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 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**

**First Year**  
Photography Theory and Practice, Management and Industrial Studies, Law, Graphic Design.

**Second 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** £120 per academic year.

**Department in Charge** Physics.

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**PSL****SCIENCE LABORATORY TECHNICIANS' CERTIFICATE**

This course is only for people in suitable employment.

A part-time course to meet the needs of technicians employed in universities, research and other educational institutions and of technicians employed in industrial laboratories. The aim is to provide a thorough grounding in fundamental laboratory practice and procedures and a sound knowledge of the underlying scientific principles.

The first two years of the course are designed to give a general introduction to Science Laboratory Techniques. The third year is planned to allow some degree of specialisation but still retain most of the broad approach of the first two years.

**Course Duration** Three years — one full day or two half days and two evenings/week.

**Qualification for Admission** As stated in (c) in General Entry Requirements on page 25

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

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

**Fee** £70 per academic year.

**Department in Charge** Chemistry.

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**PSL4****SCIENCE LABORATORY TECHNICIANS' DIPLOMA**

A further two years specialised study leading to the Science Laboratory Technicians Diploma.

**Qualifications for Admission** Science Laboratory Technicians Certificate or equivalent qualification.

**Course Duration** Two years — one day and two evenings per week.

**Examinations** Examinations will be held at the end of each year.

**Fee** £70 per academic year.

**Department in Charge** Chemistry

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**PSN****STUDENT NURSES**

This course is organised by two of the Colleges of the Dublin Institute of Technology, College of Commerce, Rathmines and the College of Technology, Kevin Street, and is run in conjunction with the Nursing Schools of a number of Dublin hospitals.

**Course Duration** 3 years, Block Release.

**Qualifications for Admission** As stated in (b) in the General Entry Requirements on pages 18 to 20. Prospective students are also required to be members of a Hospital Nursing School which has an agreement with the Dublin Institute of Technology in relation to this course.

**Course****First Year**

Physics, Chemistry, Psychology, Law and French.

**Second Year**

Biophysics, Biochemistry, Psychology, Law and French.

**Third Year**

Biophysics, Biochemistry, Psychology, Law and French.

**Fee** £27 per academic year.

**Department in Charge** Physics.





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## EVENING COURSES IN MATHEMATICS

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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.

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**M1                    MATHEMATICS FOR ENGINEERING PRACTICE AND TRADES**

A course in Practical Mathematics.

**Course Duration** Four years: one evening (2 hours) per week.

**Examinations** The Elementary 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** £50 per academic year.

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**M2                    MATHEMATICS FOR TELECOMMUNICATIONS**

**Course Duration** Four years: One evening per week (1½ hours per week for first two years; 3 hours per week in third and fourth years).

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

**Fee** £50 per academic year.

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**M3                    MATHEMATICS FOR ENGINEERING**

**Course Duration** Four years: One evening per week (1½ hours in the first and third years; 3 hours in the second and fourth years).

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**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** £50 per academic year.

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## **M4 MATHEMATICS**

A course covering Mathematics from about Leaving Certificate Higher Course (or GCE A — level) to General Degree level.

**Course Duration** Two years: One evening (3 hours) per week.

**Examinations** At the end of the second year, students may sit a qualifying examination for entry to course M7.

**Fee** £50 per academic year.

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## **M6 STATISTICS**

A course leading to Membership of the Institute of Statisticians. Classes are provided for students preparing for the Preliminary and Stages I, II and III of the Institute's Examinations. The Institute may grant exemption from the Preliminary Examination and in certain cases the Part I examination, to candidates with suitable qualifications.

**Course Duration** Four years: Three evenings (9 hours) per week in the second year and two evenings (6 hours) per week in the first, third and fourth years.

**Examinations** **First Year**  
The Preliminary Examination of the Institute of Statisticians at the end of the first year involving three papers.

- (a) Collection and compilation of data
- (b) Calculation
- (c) Presentation of results

### **Second Year**

The Stage I Examination of the Institute of Statisticians at the end of the second year involving three papers:

- (a) mathematics
  - (b) elements of statistical theory
  - (c) elements of statistical methods
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### Third Year

The Stage II Examination of the Institute of Statisticians at the end of the third year involving three papers:

- (a) statistical theory I
- (b) statistical theory II
- (c) applied statistical methods

### Fourth Year

The Stage III Examination of the Institute of Statisticians at the end of the fourth year involving three papers:

- (a) sample surveys and experimental design
- (b) special subject A chosen from four options
- (c) special subject B chosen from four further options.

Applicants should consult the Head of the Department regarding the options which the College is prepared to offer. Students are advised to familiarise themselves with the regulations of the Institute.

**Fee** £50 per academic year.

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## M7 GRADUATESHIP OF THE INSTITUTE OF MATHEMATICS AND ITS APPLICATIONS

A course leading to the Graduateship of the Institute of Mathematics and its Applications. Graduateship of the Institute of Mathematics and its Applications is recognised as equivalent to an honours degree in Mathematics.

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

**Qualifications for Admission** A university degree with mathematics at the General Degree level or equivalent.

**Course** The Graduateship Examination consists of two parts.

#### Part I

Four papers: three of which must be passed at one sitting.

- (a) mathematical analysis
- (b) mathematical methods
- (c) algebra
- (d) statistics and mechanics.

#### Part II

Four papers: one compulsory paper:

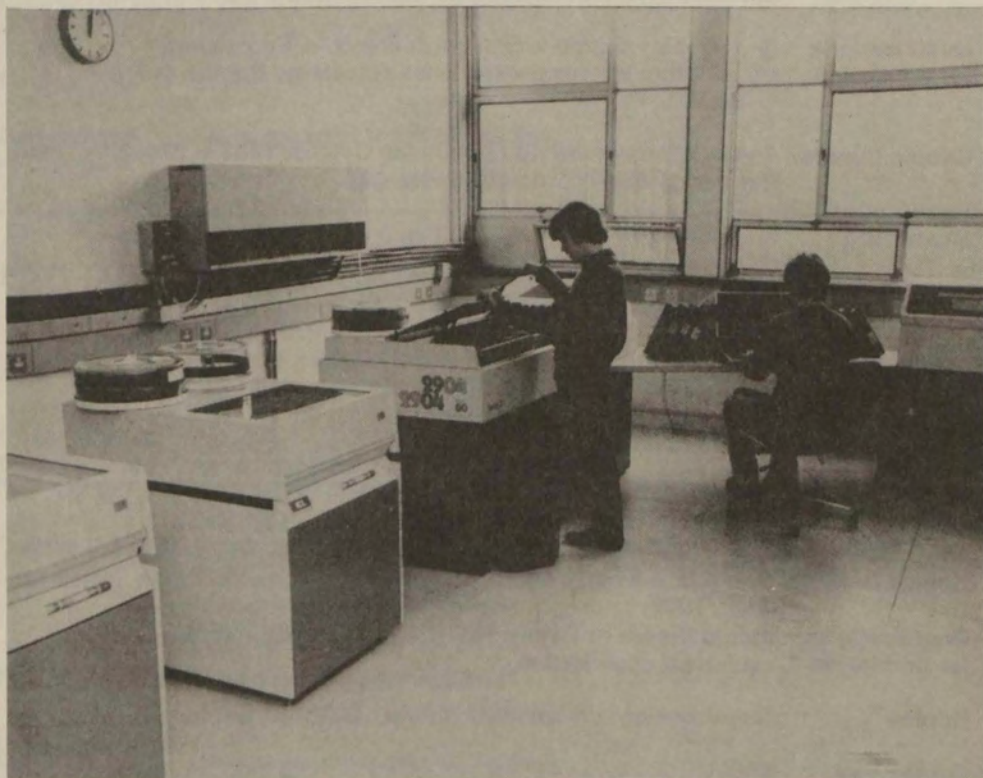
- (a) mathematical methods
- and three papers chosen from a list of options.
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Applicants should consult the Head of the Department regarding the options which the College is prepared to offer.

**Examinations** Normally students would sit the Part I at the end of the second year and Part II at the end of the fourth year. Students are advised to familiarise themselves with the regulations of the Institute.

**Fee** £50 per academic year.



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## COURSES IN MODERN LANGUAGES

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The Department of Languages and Industrial Studies provides the following courses in Modern Languages for those who wish to acquire or improve a competence in the use of Modern Languages for specialist (vocational, scientific or technical) purposes.

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### **PLAL POST-GRADUATE DIPLOMA IN APPLIED LINGUISTICS**

A one-year evening course in applied linguistics for language teachers leading to the award of a Post Graduate Diploma in Applied Linguistics will commence on Monday, 4th October, 1982.

**Qualifications for Admission** (i) a primary degree in German or French or English and  
(ii) minimum two years' experience of teaching German or French or English.

**Course Duration** 1 year, approximately 30 weeks, 4th October 1982 – 27th May, 1983.  
2 evenings weekly. 2 hours per evening.

**Examination** An examination will be held in May. It will consist of three parts:  
(i) paper in General Linguistics  
(ii) paper in Applied Linguistics  
(iii) A minor dissertation.

**Fee** £120.

**Department in Charge** Languages and Industrial Studies.

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### **PCL MODERN LANGUAGES FOR SECRETARIES**

**Course Duration** One year – 3 hours weekly, one evening per week to begin September 27th, 1982.

**Qualifications for Admission** Pass in French or German or Spanish at Leaving Certificate or an equivalent qualification.

**Course** Translation and composition of business correspondence.

**Course Fee** £50.

**Department in Charge** Languages and Industrial Studies.

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**PCLS****MODERN LANGUAGES FOR SPECIALIST PURPOSES**

A one-year evening course in the practical use (oral and written), of a foreign language and in the culture and institutions of the country of the foreign language. Students may sit the Grade I or the Grade II Certificate Examination or the Final Diploma Examination of the Institute of Linguists Educational Trust.

**Qualifications  
for Entry**

- a) for Grade I or Grade II – Leaving Certificate or an equivalent in the modern language, French or German or Spanish.
- b) for the Final Diploma Course – either (i) a University degree in the modern language, French or German or Spanish. or (ii) a recognised equivalent in the modern language, French or German or Spanish.

**Course Duration** 1 year approximately 30 weeks, 27th September, 1982 – 6th May, 1983. 6 hours weekly.

**Course Fee** £120.

**Department  
in Charge** Languages and Industrial Studies.

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**PDT****TRANSLATORS' DIPLOMA**

A part-time evening course in translation techniques and practice leading to the Translators' Intermediate Examination offered by the Institute of Linguists Educational Trust. The course is so arranged that applicants may take one or two languages.

**Qualifications  
for Admission**

- Either:
- (a) a University degree in French and/or German, or
- (b) a recognized equivalent in French and/or German.

**Course Duration** 1 year, approximately 30 weeks, 27th September, 1982 – 6th May, 1983.

1 language: 5 hours weekly.

2 languages: 8 hours weekly.

**Fee** £100 if one language studied.  
£160 if two languages studied.

**Department  
in Charge** Languages and Industrial Studies.

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## ELECTRICAL, ELECTRONIC AND TELECOMMUNICATIONS ENGINEERING AND RELATED COURSES

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### **WCE**                      **COUNCIL OF ENGINEERING INSTITUTION'S PART 2 EXAMINATION**

This is a whole-time course of one year duration covering certain subjects of the CEI Part 2 Examination for students who have completed an approved Technician Engineer Diploma course.

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

**Qualifications for Admission** Intending students must have successfully completed an approved Technician Engineer Course, and must have passed or obtained exemption from the Council of Engineering Institutions Part 1 Examination.

**Course** Mathematics, Electromagnetic Fields and Networks, Physical Electronics, Electronic Engineering, Computer Engineering, Communication Engineering, The Engineer in Society.

**Examination** The Council of Engineering Institutions Part 2 Examination in the above subjects.

**Fee** £200.

**Department in Charge** Telecommunications Engineering.

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### **R8**                      **DIGITAL ELECTRONICS & MICROPROCESSORS**

This evening course extends over three years:  
The first year of the course provides a foundation in Digital Electronics; the second year is a basic course in Microprocessors; the third year deals with more advanced topics in the application of Microprocessors. In all three years of the course attendance is required at the College on two evenings per week.

**Qualifications for Admission** Entry to the Course is restricted to those who have as a minimum a recognised technician qualification in Electronics.  
Direct entry to the second year of the course will be permitted for those who can produce evidence of having successfully completed a course in digital electronics of a level corresponding to that of the First Year.

**Fee** £50 per academic year.

**Department in Charge** Telecommunications Engineering.

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**SEE****HONOURS DIPLOMA IN ELECTRICAL ENGINEERING**

A whole-time honours course leading to a Diploma in Electrical Engineering for those wishing to become professional electrical engineers.

Those who successfully complete this course are eligible for the award of the B.Sc. (Eng.) degree of the University of Dublin.

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 recognises 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.

**Course Duration** Four years: 5 days (approx. 30 hours) per week.

**Qualifications for Admission** As stated in (a) in General Entry Requirements on page 25.

**Course****First Year**

Mathematics, Physics, Applied Mechanics, Electricity, Engineering Drawing, Materials and Processes, The Engineer in Society and Continental Language.

**Second Year**

Mathematics, Physics, Applied Mechanics, Electricity, Engineering Drawing, Materials and Processes, The Engineer in Society, Electronics and Continental Language.

**Third Year**

Mathematics, Physics, Electrical Measurements, Field and Circuit Theory, Control Systems, Communications Engineering or Electrical Power, The Engineer in Society, Electronics and Continental Language.

**Fourth Year**

Mathematics, Electrical Engineering Materials, Field and Circuit Theory, Control Systems, Communications Engineering or Electrical Power, The Engineer in Society, Electronics and Continental Language.

**Examinations**

Examinations will be set by the College at the end of each year of the course. These examinations will be held in the Summer. Repeat examinations will be held where appropriate in the Autumn. The attention of students is particularly directed to Examination Regulations on pages 21 to 23.

**Fee**

£200 for yrs 1 & 2. £160 for yrs 3 & 4.

**Department in Charge**

Electrical Engineering.

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## WEET

### TECHNICIAN ENGINEERING DIPLOMA — ELECTRICAL ENGINEERING

A whole-time course leading to a Technician Engineering Diploma of a high standard in the field of Electrical Engineering. The course has been approved by the Institution of Engineers of Ireland and holders of the College Diploma are eligible for election to the grade of Affiliate and later to the grade of Associate of the Institution. In the final two years of the course, there is a specialised option in control and microprocessor applications.

**Course Duration** Three years: 5 days (approx. 30 hours) per week.

**Qualifications for Admission** As stated in (c) in General Entry Requirements on page 25.

#### Course

##### First Year

Continental Language, Economics, Mathematics, Applied Mechanics, Physics, Engineering Drawing, Mechanical Workshop, Principles of Electricity, Electronics, Electrical Power.

##### Electrical Power Option.

##### Second Year

Mathematics, Continental Language, Economics, Materials, Hydraulics, Thermodynamics, Field and Circuit Theory, Electronics, Electrical Measurements and Instrumentation, Electrical Power.

##### Third Year

Mathematics, Continental Language, Economics, Circuit Theory, Electronics, Control Systems, Electrical Power, Project.



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### Control & Instrumentation Option.

#### Second Year

Mathematics, Continental Language, Economics, Materials, Hydraulics, Thermodynamics, Field and Circuit Theory, Electronics, Electrical Measurements, Control and Instrumentation.

#### Third Year

Mathematics, Continental Language, Economics, Circuit Theory, Electronics, Control Systems, Microprocessors in Instrumentation and Control.

<b>Examinations</b>	Examinations will be set by the College at the end of each year of the course. These examinations will be held where appropriate in the Autumn. (There is no repeat examination in the final year).
<b>Fee</b>	£100 per academic year.
<b>Department in Charge</b>	Electrical Engineering.

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### E5. 1

#### ELECTRICAL ENGINEERING

This is a two-year Evening course covering some of the subjects of the Council of Engineering Institution's Part 1 Examination.

<b>Qualifications for Admission</b>	Students must have completed an approved Technician Course in the electrical or communication field, and have reached an approved level in Mathematics, Applied Mathematics and Physics.
<b>Course</b>	The course will run for three or four evenings per week.
<b>Fee</b>	£50 per academic year.
<b>Department in Charge</b>	Electrical Engineering.

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### 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.

<b>Entry Requirements</b>	Students must have completed a Technician Engineering Course in the electrical or communication field and must also have passed or have exemption from the CEI Part 1 Examination.
<b>Course</b>	This 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.
<b>Fee</b>	£50 per academic year.
<b>Department in Charge</b>	Electrical Engineering.

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**PET****ELECTRICAL TECHNICIANS' CERTIFICATE**

A part-time day-release and evening course, which leads to a College Certificate for personnel in the Electrical Industry.

**Course Duration** The course runs over the normal college session and the duration per week is: Year I, II and III: one full day and three evenings. Year IV: four evenings.

**Qualifications for Admission** (1) Students must be employed in the Electrical Engineering field, and (2) must have passed five subjects in the Leaving Certificate examination (see page 25) or have approved alternative qualification.

**Course** The technological subjects include Generation and Transmission, Utilization, Control and Instrumentation, Applied Electronics, Circuit Theory. The course also includes Mathematics, Physics and English.

**Examinations** Students will 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 City and Guilds of London Institute.

**Fee** £70 per academic year.

**Department in Charge** Electrical Engineering.

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**SEBT****ELECTRICAL TECHNICIANS**

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.

**Qualifications for Admission** 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 of London Institute and of the Department of Education.

**Fee** £70 per academic year.

**Department in Charge** Electrical Engineering.

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**E1.****ELECTRICAL TECHNICIANS**

An evening course which prepares students for the Electrical Practice examinations of the Department of Education and the City and Guilds of London Institute.

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

**Qualifications for Admission** Prospective students must:  
(i) be employed in the electrical industry;  
(ii) have passed the Leaving Certificate with Physics (see page 25) or have an approved alternative qualification.

**Course**

**Year One**  
Mathematics, Mechanics, Electrical Engineering Principles, Engineering Graphics.

**Year Two and Three**  
Mathematics, Mechanics, Field and Circuit Theory, Electrical Power, Electronics.

**Year Four**  
Advanced Electrical Technology Utilisation of Electrical Energy, Control Systems Engineering.  
Laboratory work is included in all years of the Course.

**Examinations** Electrical Engineering Practice (803) of the City and Guilds of London Institute.

Year 1: Part I  
Year 2: Part II with Power option  
Year 3: Electronics option of Part II  
Year 4: Part III with Utilisation of Electrical Energy and Control Systems, Engineering options.

**Department of Education**  
Year 4: Advanced Electro-technology, and Electrical Engineering Practice (Section B — Advanced Stage).

**Fee** £50 per academic year.

**Department in Charge** Electrical Engineering

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**WRS****TECHNICIAN DIPLOMA IN ELECTRONIC ENGINEERING (formerly Technician Diploma in Radio-Electronics)**

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

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

**Minimum Qualifications for Admission** As stated at (c) in General Entry Requirements on page 25.

**Course** **First Year**  
Mathematics, Mechanics, Physics, Materials and Processes, Electricity, Electronics, Computer Programming, Electrical Draughting, Mechanical Workshop Practice, Electronic Workshop Practice, Industrial Studies, French or German.

**Second Year**  
Mathematics, Physics, Electricity, Circuit Theory, Analogue and Digital Electronics, Electronic Measurements, Communications Engineering, Industrial Studies, French or German.

**Third Year**  
Mathematics, Electric Circuits, Analogue and Digital Electronics, Microprocessor Systems, Communications Engineering, Industrial Studies, French or German.

**Examinations** 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 Examination Regulations on pages 21 to 23.

**Fee** £100 per academic year.

**Department in Charge** Telecommunications Engineering.

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## **WRCE CERTIFICATE IN ELECTRONICS**

The syllabus content of this whole-time course, which extends over two years, is strongly weighted towards the applied and practical aspects of Electronics. The course is organised to provide a qualification at Certificate level for those students who are preparing to work as production or maintenance technicians in the electronics industry.

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

**Minimum Qualifications for Admission** As Stated at (c) in General Entry Requirements on page 25.

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<b>Course</b>	<p><b>Year 1</b>          Mathematics, Engineering Science, Electricity, Electronics Workshop, Analogue and Digital, Electronics, Electrical Draughting, Workshop Practice, Communication Studies, Computer Programming.</p> <p><b>Year 2</b>          Mathematics, Electricity, Circuit Theory, Digital and Analogue, Electronics, Communication Systems, Computer Systems, Computer Programming.</p>
<b>Examinations</b>	Examinations will be held in all subjects at the end of the first year, and the final Certificate Examinations will be held at the end of the second year of the course.
<b>Fee</b>	£100 per academic year.
<b>Department in Charge</b>	Telecommunications Engineering.

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**PRM                    ELECTRONIC SERVICING (Industrial Equipment, Television and Audio Equipment)**

This is a part-time day release course designed to prepare students for Parts I, II and III of the City and Guilds of London Institute Course 224 (formerly the Radio, Television and Electronics Mechanics course).

<b>Course Duration</b>	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.
<b>Qualifications for Admission</b>	<p>A pass in the Intermediate Certificate or Group Certificate of the Department of Education, with Mathematics and English as essential subjects.</p> <p>Prospective students MUST be employed as trainees or apprentices in the electronics or telecommunications industry.</p>
<b>Course</b>	<p>The course subjects include Electricity, Electronics, Radio, Television together with Mathematics and Mechanical Workshop Practice.</p> <p>A systems approach is used with a strong emphasis on the practical aspects and a restricted use of analysis.</p>
<b>Examinations</b>	<p>The Part 1 examination is taken at the end of the first year.</p> <p>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.</p>

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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.

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**R7 INDUSTRIAL ELECTRONICS FOR ELECTRICIANS**

This evening course extends over two years and is directed specifically towards electricians who require an understanding of industrial electronic principles and equipment. The course provides an introduction to the principles of analogue and digital electronics and treats selected industrial applications.

**Qualifications for Admission** Entry to the course is restricted to those who are employed as electricians and who have completed a recognised electrical apprenticeship, and who hold as a minimum the Senior Trade Certificate of the Dept. of Education in Electrical Installation Work.

**Fee** £50 per academic year.

**Department in Charge** Telecommunications Engineering.

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**WRR MARINE RADAR MAINTENANCE CERTIFICATE**

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

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

**Qualifications for Admission** Prospective students are required to hold the Marine Radiocommunication General Certificate, or show evidence of having an equivalent standard of knowledge of Electricity and Radio Communication.

**Course** The course provides instruction in the theory and practice of Radar, and practice in the operation and maintenance of Radar equipment.

**Fee** £100 per course.

**Department in Charge** Telecommunications Engineering.

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**WRO****MARINE RADIO-ELECTRONICS OFFICERS**

This is a one-year whole-time course to prepare students, who have completed successfully the Certificate Course in Electronics (Ref. WRCE, page 58), for the Marine Radiocommunication General Certificate Examinations conducted by the Department of Posts and Telegraphs. This certificate (MRGC) is required for employment as a Radio Officer in the International Mercantile Marine Services.

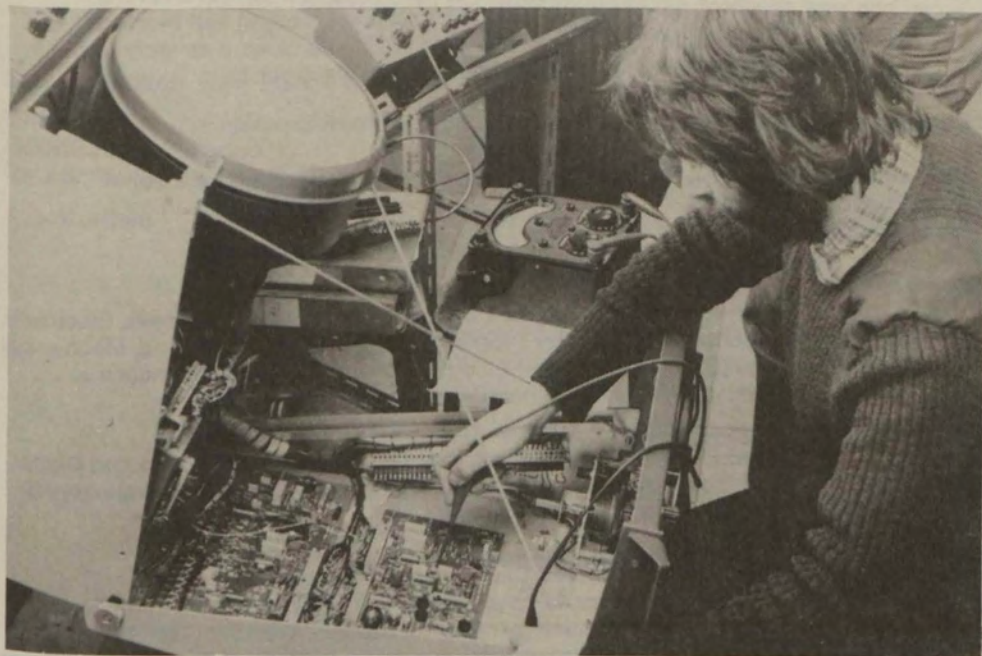
**Course Duration** One year, five days per week.

**Minimum Qualifications for Admission** Technician Certificate in Electronics, or equivalent qualification with adequate Radio Communication content.

**Course** The course includes Electricity, Analogue and Digital Electronics, Radio Communication, Communications Regulations and Procedures, Telegraphy and Telephony Practice.

**Fee** £100.

**Department in Charge** Telecommunications Engineering.





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**SRPO POST OFFICE ENGINEERING TECHNICIANS**

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

<b>Course Duration</b>	Three periods, each of 10 weeks duration (32½ hours per week) over two academic years.
<b>Qualifications for Admission</b>	The course is confined to Technician Trainees of the Department of Posts and Telegraphs.
<b>Course</b>	The course provides instruction in Irish, English, Mathematics, Physics, Electricity, Drawing and Electronics.
<b>Fee</b>	Trainees from areas outside Dublin City are admitted under special fee arrangements with the Vocational Education Committee of the areas concerned.
<b>Department in Charge</b>	Telecommunications Engineering.

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**WRTT TECHNICIAN ENGINEERING DIPLOMA — TELECOMMUNICATIONS AND ELECTRONICS**

A whole-time course designed to provide a broad and thorough education for students intending to pursue careers as technician engineers in telecommunications and electronics.

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

**Minimum Qualifications for Admission** As stated at (c) in General Entry Requirements on page 25.

<b>Course</b>	<b>First Year</b> Mathematics, Mechanics, Physics, Materials and Processes, Electricity, Electronics, Computer Programming, Engineering Drawing, Mechanical Workshop Practice, and Electronic Workshop Practice, Industrial Studies, French or German.
	<b>Second Year</b> Mathematics, Physics, Electricity, Circuit Theory, Analogue and Digital Electronics, Electronic Measurements, Communications Engineering, Industrial Studies, French or German.
	<b>Third Year</b> Mathematics, Physics, Circuit Theory, Analogue and Digital Electronics, Microprocessor Systems, Communications Engineering, Computer Programming, Industrial Studies, French or German.

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<b>Examinations</b>	The Diploma Examination is taken at the end of the third year. College examinations are held at the end of the first and second years. The attention of students is particularly directed to Examination Regulations on pages 21 to 23.
<b>Fee</b>	£100 per academic year.
<b>Department in Charge</b>	Telecommunications Engineering.

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## **WRAL TELECOMMUNICATION & ELECTRONIC TECHNICIANS**

This is a two year wholetime course designed to prepare students who are employed as trainee technicians in the Electronics/ Telecommunications industry for selected subjects in the City & Guilds of London Institute Course 271 Telecommunications Technician Certificate examinations. The course curriculum is such as to provide a broad coverage of the Telecommunications and Electronics field, extending beyond the examination requirements of the City & Guilds. A significant laboratory content is included in the course.

In addition to the formal course subjects detailed below a period of time is available each week to enable a specialist input to be provided by the employer. This facility is provided to enable the employer to maintain contact with the student during the academic year and to provide specialist lectures appropriate to the industry concerned.

<b>Course Duration</b>	Two years – 5 days per week.
<b>Minimum Qualifications for Admission</b>	Applicants must be employed as trainee technicians in the electronics industry.
<b>Examinations</b>	Students are required to take the following examinations at the end of the first year: <p style="text-align: center;">Mathematics T1, Physical Science T1</p> <p>Telecommunication Systems T1 and Communication Studies T1 together with Mathematics T2, Electrical Principles T2, Electronics T2 and Radio and Transmission Systems T2.</p> <p>At the end of the second year students will take the following examinations:—</p> <p>Part 1 T2 examination in Microelectronic Systems together with the Part 2 T3 examinations in Mathematics, Electrical Principles, Electronics, Radio and Microelectronic Systems.</p>
<b>Fee:</b>	£100 per academic year.

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**R6****TELECOMMUNICATION TECHNICIANS**

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 Certificate).

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

**Minimum Qualifications for Admission** Leaving Certificate (Ordinary Level) in Mathematics and English or equivalent. An entrance selection test may be set by the College.

**Examinations** **Part 1 (T1) Examinations:** Practical Mathematics (270-1-01), Engineering Science (270-1-02) Reports, Drawings and Processes (270-1-03). At the end of the 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 the 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 the 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** £50 per academic year.

**Department in Charge** Telecommunications Engineering.

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## COURSES FOR APPRENTICES AND CRAFTSMEN

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### PSB

### BAKERY PRACTICE

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

**Course Duration** Four years; one day and one evening per week.

**Qualifications for Admission** Prospective students must be apprenticed to the Breadmaking and Flour Confectionery trades and pass an entrance examination. Students holding a pass Leaving Certificate are exempt from entrance examination.

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

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

**Lecturer-in Charge** Daniel T. Carey, N.B.Dip., Tech.Dip., C. & G., M.I.I.B.

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### WBT

### DIPLOMA IN BAKERY PRODUCTION AND MANAGEMENT

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 wide knowledge of the bakery industry is essential.

**Course Duration** Approximately 30 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 Admission** Pass Leaving Certificate or its equivalent, with a minimum of six months practical experience in a bakery. City and Guilds Advanced Craft Certificate (No. 120 Part 2) — Students holding craft certificates will be exempted from the practical bakery instruction portion of the course.

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<b>Examinations</b>	The College Diploma will be awarded to those students who complete the course in a satisfactory manner and pass the required examinations. In addition students will be encouraged to sit for the City and Guilds of London Institute Full Technological Certificate at the end of the third year.
<b>Fee</b>	£70 (this may be reduced to £53 for students exempt from practical instruction).
<b>Lecturer-in-Charge</b>	Daniel T. Carey, N.B.Dip., Tech.Dip., C. & G., M.I.I.B.

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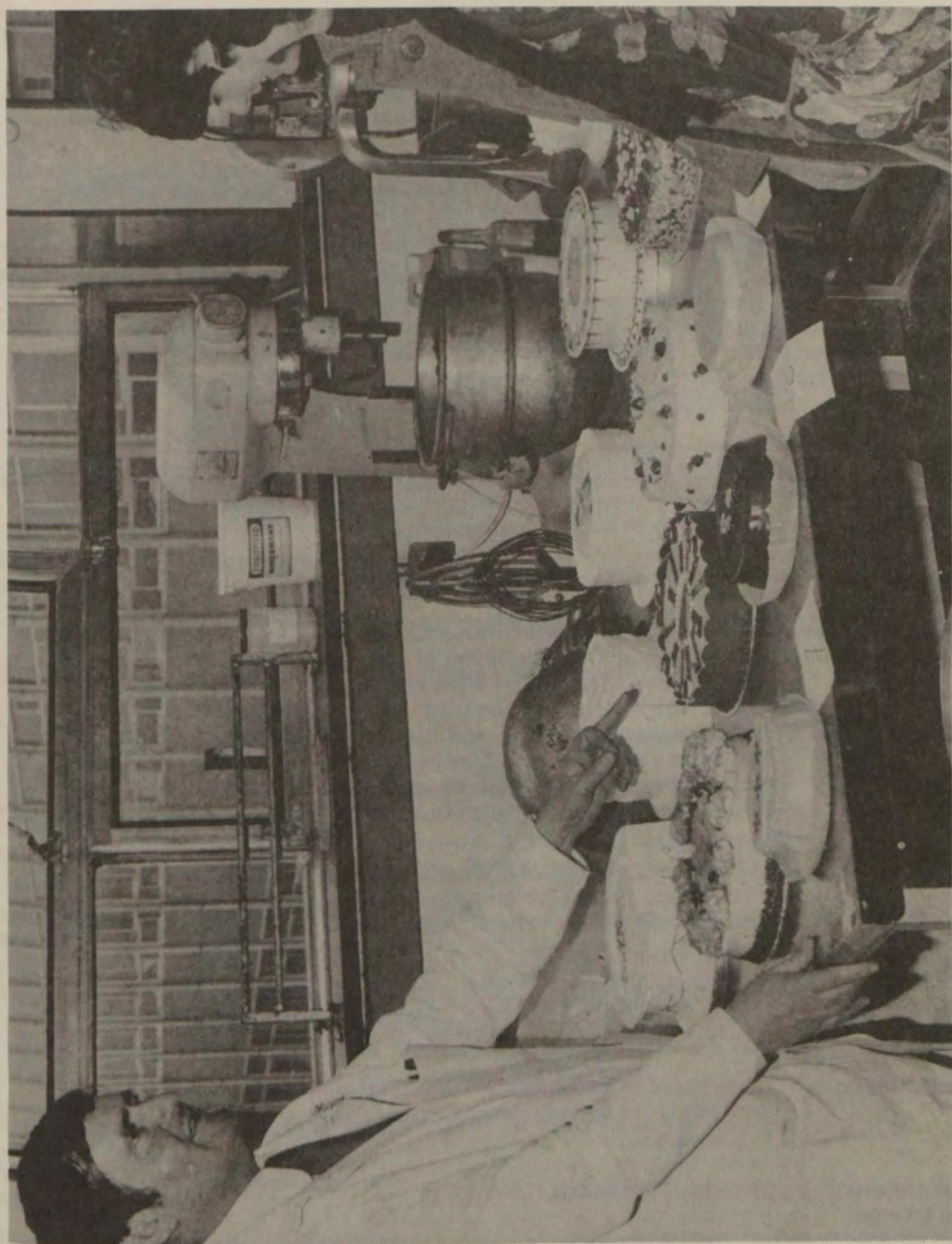
**B1. 2 &  
B1. 3**

**CONFECTIONERY DECORATION**

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** £50 per academic year.

**Lecturer-in-Charge** Daniel T. Carey, N.B.Dip., Tech.Dip., C. & G., M.I.I.B.



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**T2**

## **CABLE JOINTING**

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 evening per week.

**Qualifications for Admission** 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** £50 per academic year.

**Department in Charge** Electrical Installation.

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**SEM**

## **ELECTRICAL INSTALLATION AND MAINTENANCE**

This course provides full technical education for apprentice electricians in large industrial concerns.

**Course Duration** Four years: Approximately 16 weeks per year.

**Qualifications for Admission** Specified subjects of the Group Certificate or Intermediate Certificate examination 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 and Guilds of London Institute — Part II 236 and C Certificate Examinations.

**Department in Charge** Electrical Installation.

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**BESB****ELECTRICAL INSTALLATION WORK**

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

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

**Qualifications for Admission** Employment as an apprentice electrician and approved arrangements with a training centre.

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

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

**Department in Charge** Electrical Installation.

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**SEAS &  
PAA****ELECTRICAL INSTALLATION WORK**

This course provides technical and general education for apprentice electricians during their first year. Practical training is provided at an appropriate training centre.

**Course Duration** One year: one and a half days and two evenings per week. At the end of the year students transfer to either SESB or PEI or cover the Department of Education Senior Trade examinations.

**Qualifications for Admission** Employment as an apprentice electrician and approved arrangements with a recognised training centre.

**Course** The course is based on the relevant written examination syllabus of the Department of Education and includes Mathematics, Drawing, Electrical Science, Electrical Craft Theory, General Studies and Social Studies. No workshop classes are provided.

**Examinations** Department of Education Junior Trade Electrical examinations.

**Department in Charge** Electrical Installation.

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**T3**

**ELECTRICAL TECHNICIANS' CERTIFICATE (PARTS II AND III) CITY AND GUILDS OF LONDON INSTITUTE**

These courses are designed to prepare students for the Electrical Technicians' Part II and Part III examinations of the City and Guilds of London Institute.

**Part II Course — T3 1**

**Course Duration** One year: four evenings per week.

**Qualifications for Admission** Prospective students must have passed the Department of Education Senior Trade Certificate in Practical Installation Work, Electrical Science and Electrical Craft Practice.

**Course** Electrical Power Equipment, Testing Methods and Reliability, Planning of Electrical Installations.

**Examinations** Examinations in each of the above three subjects will take place at the end of the year.

**Fee** £50 per academic year.

**Department in Charge** Electrical Installation.

**Part III Course — T3. 2/3**

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

**Qualifications for Admission** Prospective students must have obtained a pass in the Electrical Technicians' Certificate Part II Examination of the City and 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 the second year.

**Fee** £50 per academic year.

**Department in Charge** Electrical Installation.

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**SESB  
(Block)**

**PEI (Day  
release)**

## **APPRENTICE ELECTRICIANS (ELECTRICAL INSTALLATION WORK)**

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.

**Qualifications for Admission** 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 and 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 and Guilds of London Institute.

**Department in Charge** Electrical Installation.



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**SEAL****APPRENTICE ELECTRICIANS IN THE AIRCRAFT INDUSTRY**

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

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

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

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

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

**Fee** £100 per academic year.

**Department in Charge** Electrical Installation.

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**T1****PERSONNEL IN THE ELECTRICAL INDUSTRY**

A course in Applied Electricity and related Sciences. The last two years (T1. 3 and 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 Part II 236 and C Certificate examinations of the City and Guilds of London Institute.

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

**Qualifications for Admission** 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

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<b>Course</b>	Mathematics, Electrical Craft Practice, Electrical Science and Technical Drawing.
<b>Examinations</b>	The appropriate Trade and Technical examinations of the Department of Education and the City and Guilds of London Institute.
<b>Fee</b>	£50 per academic year.
<b>Department in Charge</b>	Electrical Installation.

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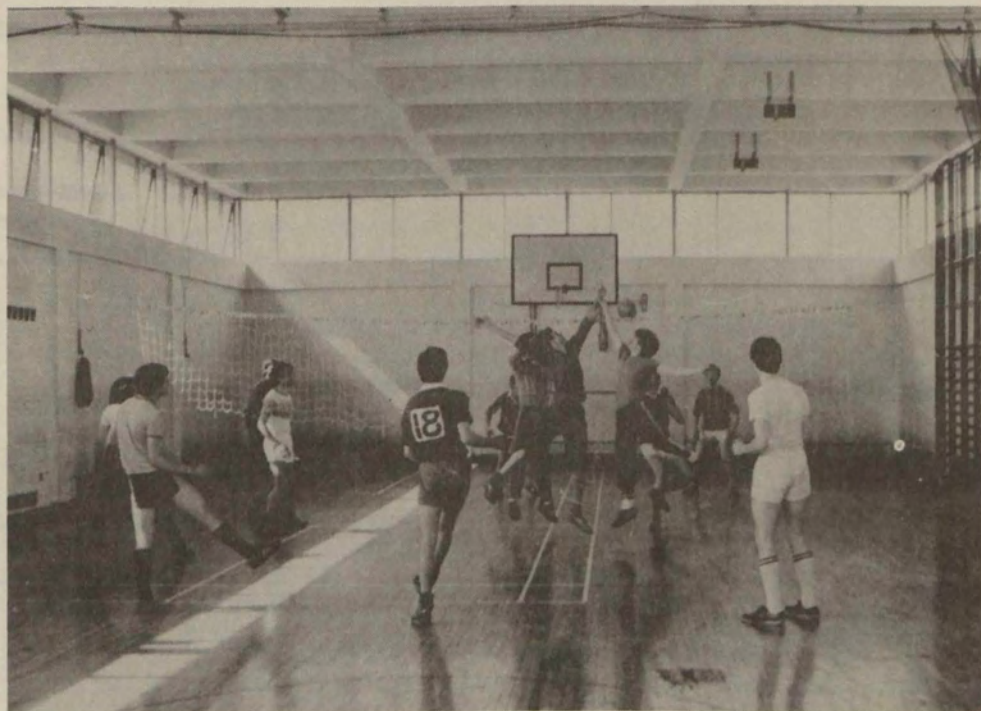
## COURSES IN PHYSICAL EDUCATION

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

Swimming  
Life Saving  
Sub Aqua  
Water Polo  
Sailing  
Wind Surfing  
Canoeing  
Gymnastics  
Badminton  
Judo  
Basketball

Volley Ball  
Yoga  
Soccer  
Gaelic Games  
Rugby  
Fencing  
Hockey (Mixed)  
First Aid  
Dance  
Jogging



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## City of Dublin Vocational Education Committee

COLLEGE OF TECHNOLOGY, KEVIN STREET, DUBLIN 8.

DUBLIN INSTITUTE OF TECHNOLOGY AWARDS.

EXTERNAL EXAMINERS 1982.

Diploma in Applied Sciences.  
BSc (Applied Sciences) University of Dublin

Professor D. Thorburn-Burns, BSc, PhD,  
DSc, FICI, CChem, FRSC  
Department of Chemistry,  
Queen's University,  
Belfast, BT9 5AG.

Professor J. M. A. Lenihan, FInstP,  
Dept. of Clinical Physics & Bioengineering,  
11, West Graham Street,  
Glasgow, G4 9LF, Scotland.

Professor Michael B. Blauert,  
School of Mathematics & Physics,  
University of East Anglia,

P. Jones, BSc, PhD, CChem, FRIC,  
FRSH  
Head of Chemistry Department,  
Liverpool Polytechnic.

Technicians' Diploma in Applied Science  
(Applied Physics Option).

Professor M. C. Sextor, FInstP,  
Dean of the Faculty of Engineering,  
University College,  
Cork.

Professor A. E. Bailey, MA, CEng, FIEE,  
FInst P.

Technicians' Diploma in Applied Science  
(Applied Biology Option).

Michael Clancy, MSc, PhD, CChem.  
FRSC, FICI  
Agricultural Institute,  
Dunsinea,  
Co. Dublin.

M. H. R. Lewis,  
Lecturer in Biochemistry,  
Queen's University,  
Belfast BT9 5AG.

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Technicians' Diploma in Applied Science (Applied Chemistry Option).	Professor W. M. Fogarty, Department of Industrial Microbiology, University College Dublin.
Honours Diploma Course in Electrical Engineering BSc (Engineering), University of Dublin.	A. Galwey, DIC, PhD, DSc(London), CChem, MRSC Department of Chemistry, David Keir Building, Queen's University, Belfast.
Technician Engineering Diploma — Electrical Engineering	F. T. Smyth, BSc, PhD, FRSC, FICI Senior Principal Scientific Officer, Institute for Industrial Research and Standards.
Diploma in Ophthalmic Optics	Professor G. T. Wrixon, BE, MSc, PhD University College, Cork.
Diploma in Food Science	Professor B. W. Hogg, PhD, CEng, MIEE, SMIEE Department of Electrical & Electronics Engineering, Queen's University, Belfast
	Professor Albin Arnold Bromley, MSc CEng FIEE.
	Mr. J. A. V. McEvoy, BE, CEng, FIEE Managing Director, A.S.E.A. Electric (Ireland) Ltd.
	T. C. A. Jenkins, University of Bradford.
	Mr. G. E. McGuire, FAOI.
	Mr. Michael Purcell, BSc Gilbeys of Ireland Ltd. Professor W. M. Fogarty, Department of Industrial Microbiology, University College, Dublin.

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Certificate in Professional Photography

Herr Heinz Wedewardt, Diplom  
Photo-Graphiker DGPh-EUROPHOT-BFF.

Mr. R. Stevens, AIPPA  
Ricky Stevens Studios,

Advanced Certificate in Professional  
Photography

Herr Heinz Wedewardt, Diplom  
Photo-Graphiker DGPh-EUROPHOT-BFF.

Mr. R. Stevens, AIPPA  
Ricky Stevens Studios.

Diploma in Dietetics

Mr. P. Start,  
Department of Chemistry,  
University College, Dublin.

Professor D. Hingerty,  
Department of Biochemistry,  
University College Dublin.

Dr. J. Fred Jackson,  
Department of Pathology,  
Mater Hospital.

Miss Frances Doherty, BSc BA(MOD)  
MNS.

Miss T. McDonagh,  
St. James's Hospital,

Dr. J. Kevany,  
Trinity College Medical School,  
St. James's Hospital.

Miss Hazel Coubrough,  
District Dietitian,  
The Aberdeen Royal Infirmary.

Science Laboratory Technicians' Certificate

Peter Boyle, MA, PhD  
Department of Chemistry,  
Trinity College.

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TECHNICAL STAFF

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Michael Clancy, MSc, PhD, CChem,  
FRSC, FICI  
Agricultural Institute,  
Dunsinea.

A. Galwey, DIC, PhD, DSc(London),  
CChem, MRSC

Department of Chemistry,  
David Keir Building,  
Queen's University,  
Belfast.

Professor W. Fogarty, BSc, PhD, FRIC  
Department of Microbiology,  
University College Dublin.

J. Carroll, BSc, MA, PhD  
Department of Biochemistry,  
Trinity College.

Technician Engineering Diploma —  
Telecommunications and Electronics

John Twomey, BE, PhD  
Mostek Ireland.

Mr. K. C. Jones, BA(Hons), DipEE, PMhil,  
CEng, MIEE  
Head of School of Engineering,  
Merton Technical College,  
Morden,  
Surrey.

Technician Diploma in Radio-Electronics

John Twomey, BE, PhD  
Mostek Ireland.

Mr. K. C. Jones, BA(Hons), DipEE, PMhil,  
CEng, MIEE  
Head of School of Engineering,  
Merton Technical College,  
Morden,  
Surrey.

Diploma in Bakery Production and  
Management

Mr. E. C. Roberts,

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Medical Physics and Physiological  
Measurement Technicians' Certificate

Mr. G. Manson, MSc, MInstP  
Principal Physicist,  
Regional Hospital,  
Cork.

Post-Graduate Diploma in Applied  
Linguistics

Professor Carl James,  
Faculty of Literature,  
University of Lisbon,  
Lisbon.

Technicians' Diploma in Computer Science

Professor John C. Byrne,  
Department of Computer Science,  
Trinity College.  
Dublin, 2.

Mr. Kevin T. O'Donnell,  
Computer Services Manager,  
Radio Telefis Eireann,