
Prospectus: Kevin Street

Kevin Street College

1985

Prospectus: 1985-86

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
1985/86**

Coiste Gairm-Oideachais Chathair Bhaile Atha Cliath

CALENDAR

FÉILIRE

SESSION 1985-86

1985		TERM 1:
SEPT.	Monday 2 Tuesday 3	Commencement of Session. Commencement of apprenticeship courses except where otherwise arranged.
	Monday 16	Interviews and enrolments for part-time and evening courses commence except where otherwise arranged.
	Monday 23	Wholetime classes commence except where otherwise arranged.
	Wednesday 25	Votive Mass. All classes closed.
	Monday 30	Part-time and evening classes commence except where otherwise arranged.
DEC.	Friday 20	Final Class meeting of first term.
1986		TERM 2:
JAN.	Tuesday 7 Friday 31	All classes resume. Closing date for receipt of College examination entries.
FEB.	Saturday 1	Closing date for applications to wholetime courses through the C.A.O. for 1986/'87. Closing date for applications for wholetime courses through the DIT Admissions Office for 1986/'87 session.
MAR.	Saturday 1 Tuesday 25	Late closing date for applications for wholetime courses through the DIT Admissions Office for 1986/'87 session. Final class meetings of second term.
APRIL	Monday 7	TERM 3: All classes resume.
MAY	Monday 19	Commencement of College Summer Examination programme except where otherwise arranged.
JUNE	Friday 20	All classes terminate except where otherwise arranged.

Block Release Dates for Engineering Trades:

Term 1:	1985	Monday, 30 September to Friday, 13 December.
Term 2:	1986	Tuesday, 7 January to Friday, 21 March.
Term 3:	1986	Monday, 7 April to Friday, 20 June.

Classes will be closed on Public Holidays during the session (viz. 28 October, 17 March, 2 June) and on Church Holidays (viz. 1 November, 8 May, 29 May) except where otherwise arranged.

- NOTE:-**
- (a) This Calendar is subject to alteration during the session.
 - (b) The information in this prospectus is intended as a guide for persons seeking admission to the College and shall not be deemed to constitute a contract, or the terms thereof, between the College and a student or any third party.
-

PROSPECTUS

1985-86

WHOLETIME COURSES

COISTE GAIRM-OIDEACHAS
CATHAIR BHAILE ATHA CLIATH

CITY OF DUBLIN VOCATIONAL
EDUCATION COMMITTEE

INSTITIUD TEICNEOLAIOCHTA
BHAILE ATHA CLIATH

DUBLIN INSTITUTE
OF TECHNOLOGY

COLAISTE TEICNEOLAIOCHTA

COLLEGE OF
TECHNOLOGY

KEVIN STREET
DUBLIN 8

Telephone: 757541-6

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

RÉAMHEOLAIRE

1985-86

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CLÁR

SESSION 1985-86

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TUITION AND EXAMINATION FEES SESSION 1985-86

	<i>Fee per Academic Year</i>
WHOLETIME COURSES	
SEE:	£640.00
WBD (2nd, 3rd and 4th years: £730):	£835.00
WSAD: WCE: WSO (WSO 4th year: £345):	£510.00
WAS: WMT: WBT: WSTO: WEET: WRS: WRCE: WRTT: WLSF:	£337.00
WML (WML 3rd year: £156):	£337.00
WAML:	£156.00
WRR: WRO: WRAL:	£317.00

PART-TIME COURSES	
PSIB: PSIC: PSAP: PAS: PSL: PET:	£136.00
PSPT: PSP:	£220.00

BLOCK RELEASE COURSE	
PSN (2nd and 3rd years: £40):	£50.00

EVENING COURSES	
M8: S6.3: PBE: PCP: PBA:	£136.00
M1: M2: M3: M4: M6: M7: M9: S6: S9: S11: S12: EE.1: EE.2:	
B1.2: B1.3: R1: R6: R7: R8: ET:	98.00
T1: T2: T3: T4: PCLL: PCLS:	£98.00
S10 (1 week block £110):	£360.00
PLAL: PDT:	£170.00

NOTE (a) The fee indicated for all wholetime courses includes the College examination fee (where applicable) for Summer examinations 1986.

College Examination Entry Fee (see note (a) above):	£20.00
Late Registration Fee:	£30.00
Tuition Fees for Overseas Students (non-EEC Countries):	£1,640.00

CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE

Councillor Liam Fitzgerald, T.D., (Chairman), 117 Tonlegee Road, Raheny, Dublin 5.
Councillor Michael Donnelly (Vice-Chairman), 33 Glendoher Avenue, Rathfarnham,
Dublin 16.

Councillor Andrew Callaghan, 52 Adelaide Road, Dublin 2.

Councillor Patrick Carey, 69 Bourne View, Ashbourne, Co. Meath.

Mr. Michael Cotter, 51 Sefton, Rochestown Avenue, Dun Laoghaire, Co. Dublin.

Mr. Patrick Donegan, 121 Shanard Road, Dublin 9.

Mr. Barry Early, 161 Sutton Park, Dublin 13.

Councillor Mary Hanafin, B Simmonscourt Castle, Ballsbridge, Dublin 4.

Mr. Sean Lyons, 30 Coolmine Woods, Clonsilla, Blanchardstown, Dublin 15.

Alderman Tomas MacGiolla, T.D., 49 St. Laurences Road, Chapelizod, Dublin 20.

Mr. Felix McKenna, Students Union Office, College of Technology, Bolton Street,
Dublin 1.

Councillor Charles McManus, 12 Walkinstown Drive, Dublin 12.

Councillor Michael O'Halloran, 141 Ardlea Road, Dublin 5.

Seamus Uas Puirseil, 16 Hampton Cove, Baile Brigín, Co. Atha Cliath.

Offices:

W. J. Arundel, Chief Executive Officer,
City of Dublin VEC,
Town Hall,
Ballsbridge,
Dublin 4.

COISTE GAIRM-OIDEACHAIS CHATHAIR BHAILE ATHA CLIATH

DUBLIN INSTITUTE OF TECHNOLOGY ACADEMIC COUNCIL

Joint Academic Council:

F. McMahon, BComm MBA MIHCE (Chairman)
O. McNulty, CEng FIEI ARTCS MIStructE (Deputy Chairman)
W. J. Arundel, BComm HDipEd
E. de Burca, FRICS FCIQB
F. M. Brennan, CEng MIEI MIERE AMIEE
J. T. Cotter, MSc
J. Creagh, MA AMCA ATC MSDI
T. Dalgic, BA MBA PhD
E. Farrell, BMus MMus
V. Farrington, BA BComm HDipEd DPA FIHA MIITM
J. Fisher BA BAI HDipEd PhD
G. Fitzpatrick, BA BComm FCA
P. R. Flood, BComm MPA FMII MIITM
K. Fox, BArch FRIAI ARHA
B. Goldsmith, MSc DPhil
C. L. Grant, MA MEd MLitt BComm HDipEd MinstM
Mona Hearn, MEd BSocSc DipDomSc HDipEd PhD
J. Hegarty, MEd DipHTLMgt MIHCI
F. Heneghan, BE BMus CEng MIMechE STCL LRIAM
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J. S. Hickey, MSc BA
M. Hussey, BE MS PhD CPhys FInstP CEng MIEE
F. Lane, BS DipAppPsych
G. Latchford, BE BSc CEng MIEI
R. Lawlor, BA MBA MIHCI
D. McGuinne, BFA MSDI
T. Madden, BComm FIMA FIIF MMII MIITM
M. Murphy, DipEng MSc MIMechE
C. Nutty, BA MPA SMS
B. J. O'Connor, CEng MIERE
M. O'Donnell, MEconSc BE BComm CEng MIProdE FIEI
P. B. O hAinle, BSc MSc PhD MinstP
J. O'Keefe, BArch FRIAI
M. O'Sullivan-Farrell, BMus DipMus LTCL
A. Prendergast, BComm HDip
M. Proctor, MSc MIFSTI MIHCI
E. J. Rothery, BSc CChem FRIC FICI MIBiol
B. A. Ryan, MSc MICI MIBiol DipIndMicrob
K. Sullivan, DipEng MSc MIEI
P. Sullivan, BA HDipEd
J. K. Taaffe, BSc MSc CPhys MinstP MBA HDipEd Dip in Prod, Barrister-at-Law
K. M. Tierney, MA

Academic Register: T. Duff

**COMHAIRLE ACADUIL INSTITIUID TEICNEOLAIOCHTA
BHAILE ATHA CLIATH**

COLLEGE COUNCIL

- Councillor Liam Fitzgerald, T.D. (Chairman)
- Mr. Michael Cotter
- Mr. Patrick Donegan
- Councillor Michael Donnelly
- Mr. Francis Brennan
- Staff Representative
- Student Representative

The remaining five nominations to Council were not available at the time of printing.

COMHAIRLE AN CHOLAISTE

WHOLETIME DEGREE/PROFESSIONAL COURSES

		<i>Ref.</i>	<i>Page</i>
Diploma in Applied Sciences			
B.Sc (Applied Sciences)	Wholetime	WSAD	27
Diploma in Dietetics and Nutrition			
B.Sc (Human Nutrition)	Wholetime	WBD	31
Diploma in Ophthalmic Optics	Wholetime	WSO	33
Council of Engineering Institutions	Wholetime	WCE	35
Honours Diploma in Electrical/Electronic Engineering (B.Sc. Engineering)	Wholetime	SEE	35

PART-TIME PROFESSIONAL COURSES

Graduateship of the Institute of Biology	Part-time	PSIB	39
Graduateship of the Royal Society of Chemistry	Part-time	PSIC	41
Fellowship of the Institute of Medical Laboratory Sciences	Evening	S10	42
Diploma in Applied Physics	Part-time	PSAP	43
Membership of the Institute of Statisticians	Evening	M6	44
Graduateship of the Institute of Mathematics and its Applications	Evening	M7	45
Membership of the British and/or Irish Computer Society	Evening	M8	46
Diploma in Food Science	Evening	S6	47
Graduate Diploma in Food Science and Technology	Evening	S6.3	48
Electrical Engineering (E.C. Part I)	Evening	EE.1	49
Electrical Engineering (E.C. Part II)	Evening	EE.2	50

WHOLETIME TECHNICIAN COURSES

		<i>Ref.</i>	<i>Page</i>
Technician Diploma in Applied Science (Biology, Chemistry, Physics)	Wholetime	WAS	51
Technician Diploma in Computer Science	Wholetime	WMT	53
Certificate in Medical Laboratory Sciences	Wholetime	WML	55
Diploma in Medical Laboratory Sciences	Block-Release	WAML	56
Diploma in Bakery Production and Management	Wholetime	WBT	58
Certificate in Optical Dispensing	Wholetime	WSTO	59
Technician Engineering Diploma – Electrical Engineering	Wholetime	WEET	61
Technician Diploma in Electronic Engineering	Wholetime	WRS	62
Technician Certificate in Electronics	Wholetime	WRCE	64
Technician Engineering Diploma – Telecommunications & Electronics	Wholetime	WRTT	66

PART-TIME AND EVENING TECHNICIAN COURSES

Technician Certificate in Applied Science (Biology, Chemistry)	Part-time	PAS	69
Technician Diploma in Applied Science (Biology, Chemistry)	Part-time	PAS 5 & 6	70
Science Laboratory Technicians' Diploma	Part-time	PSL 4 & 5	72
Technician Diploma in Dental Technology	Part-time	PSDT	73
Photographic Technicians' Certificate	Part-time	PSPT	74
Electrical Technicians Certificate	Part-time	PET	75
Technician Certificate in Medical Physics and Physiological Measurement	Evening	PBE	76

OTHER SCIENCE BASED COURSES

Certificate in Professional Photography	Part-time	PSP	79
Advanced Certificate in Professional Photography	Part-time	PSP 4 & 5	80
Certificate in Sciences for Nurses	Block-Release	PSN	81
Course in Plastics	Evening	PCP	82
Course for the Associateship of the Institute of Brewing	Evening	PBA	83

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Course for Registered Nursing Auxiliaries of the Royal College of Veterinary Surgeons	Evening	S9	85
Course for the Institute of Meat	Evening	S11	86
Course in Medical Records Administration	Evening	S12	87
Course in Mathematics for Engineering Practice and Trades	Evening	M1	88
Course in Mathematics for Telecommunications	Evening	M2	89
Course in Mathematics for Engineering	Evening	M3	90
Certificate in Mathematics and its Applications	Evening	M4	91
Course in Cobol Programming	Evening	M9	92

PART-TIME AND EVENING BAKERY COURSES

Bakery Practice	Part-time	PSB	93
Confectionery Decoration Intermediate	Evening	B1.2	94
Confectionery Decoration Advanced	Evening	B1.3	94

OTHER ELECTRICAL, ELECTRONIC OR TELECOMMUNICATIONS ENGINEERING BASED COURSES

Electrical and Electronic Draughting	Wholetime	ESED	96
Telecommunications and Electronic Technicians	Wholetime	WRAL	96
Marine Radio – Electronics Officers	Wholetime	WRO	97
Marine Radar – Maintenance Certificate	Full-time	WRR	98
Electronic Servicing	Part-time	PRM	99
Post Office Engineering Technicians	Block-Release	SRPO	100
Electronic Equipment Maintenance	Evening	R1	100
Telecommunications Technicians	Evening	R6	101
Industrial Electronics for Electricians	Evening	R7	103
Digital Electronics and Microprocessors	Evening	R8	104
Electrical Technicians	Evening	ET	105

LANGUAGE COURSES

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Certificate in European Languages/ Business Studies	Wholetime	WLSF	106
Post-Graduate Diploma in Applied Linguistics	Evening	PLAL	107
Translators' Diploma	Evening	PDT	108
Modern Languages (Practical use)	Evening	PCLL	109
Modern Languages for specialist purposes	Evening	PCLS	110

COURSES FOR ELECTRICAL APPRENTICES AND CRAFTSMEN

Cable Jointing	Evening	T2	111
Electrical Installation Maintenance	Block-Release	SEM	111
Electrical Installation Work	Block-Release	BESB	112
Electrical Installation Work	Block-Release	SEAS	113
Electrical Installation Work	Block-Release	PAA	114
Electrical Techicians' (C & G)	Evening	T3	115
Recent Developments in Electrical Installation Technology	Evening	T4.1/2	116
Electricians — Apprentices	Block-Release	SESB	116
Electricians — Apprentices	Day Release	PEI	116
Electricians — Apprentices in the Aircraft Industry	Sandwich	SEAL	118
Personnel in the Electrical Industry	Evening	T1	118

COURSES IN PHYSICAL EDUCATION

PRINCIPAL

Francis M. Brennan, DipEE, CEng, MIEI
MIERE, AMIEE.

VICE-PRINCIPALS

George L. Latchford, BE, BSc, CEng, MIEI
J. Kieran Taaffe, BsC, MsC, MInstP, MBA,
HDipEd, Dip in Prod, Barrister-at-Law

**DEPARTMENT OF
MATHEMATICS, STATISTICS &
COMPUTER SCIENCE****HEAD:**

Brendan Goldsmith, BSc, MSc, DPhil

ASSISTANT HEADS:

Thomas Ambrose, BSc, MSc, PhD
Brendan O'Shea, BSc, MSc, PhD

DEPARTMENT SECRETARY:

Mrs. June Carroll

STAFF LECTURERS:

B. T. Browne, BE, BSc, PhD
A. A. Byrne, BSc, MSc
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H. Dalton, FTC (EEP) C&G BSc
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P. O'Gallchobhair, BEol, ATO
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PART-TIME TEACHERS:

T. Conway, BSc
P. Devlin, BSc, GradIMA
J. C. Frain, MSc
J. Langan, BSc
B. O'Brien, BSc
P. Troy, BA, BAI
D. Twohig, BSc

DEPARTMENT OF PHYSICS**HEAD:**

Matthew Hussey, BE, MS, PhD, FInstP,
CEng, MIEE

ASSISTANT HEADS:

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DipEdAdmin
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Wertenscapen, MInstP
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G. White, AdvCert (DIT)

VISITING LECTURER:

E. P. Tuffy, BSc, MInstP, MEd,
CGLI (FETC)

PART-TIME LECTURERS::

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J. Robinson, CGLI (Physics Tech)
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AIMLS
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H. Karodia, GRSC
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Catherine O'Connell, BA(Mod)
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Angela O'Reilly, BSc
B. O'Rourke, MSc
Imelda Shanahan, BSc
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H. Stein, BSc
T. Taylor, BSc, GRSC
M. Tuite, BSc

TECHNICAL STAFF:

S. Magee, BSc
H. Wallace, BSc
P. White

DEPARTMENT OF BIOLOGICAL SCIENCES

HEAD:

Miss Brid Ann Ryan, MSc, MICI, MIBiol

ASSISTANT HEADS:

Patrick J. Davey, BA (Mod, PhD, MIBiol)

Liam Lawlor, FIMLS

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DPH

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J. Vaughan, FIMLS

B. P. Woods, MSc, MICI, MIBiol

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John Brady, FIMLS

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Pauline Coakley, FIMLS

Brian Crowe, BSc

Tom Curtis, BSc

Anne Downey

Denis Dempsey, FIMLS

Anthony P. Finch, FIMLS

Eamonn Fitzpatrick, FIMLS

Evelyn Hannigan, FIMLS

James Caffrey, FIMLS

David A. John

John Keating, FIMLS

Bernadette Lennon, FIMLS

Catherine McCarthy, Dip in Dietetics

Denise McEvoy, PhD

Carin Mhic Daeid, PhD

Michael O'Connor, FIMLS

Abiodun Odumosu, PhD

Cliona O'Farrelly, PhD

John A. Power, BSc

Maura Reynolds

Angela Shaw

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

R. F. 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, MRCPPath

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TECHNICAL STAFF:

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Patricia Daly, TechDipAppSc

E. Doody, TechDipAppSc
Kathleen Johnson, Laboratory Aide
Mary Kavanagh, Laboroator Aide
Breege Keenan, CGLI(Bioc)
Rosaleen Lawlor, Laboratory Aide
R. Leydon, CGLI, AIST
Patricia Seaman, RT(CSLT) Canada,
IMLS Member
Daireen Caffrey, TechDipAppSc
D. White, Laboratory Aide

DEPARTMENT OF ELECTRICAL ENGINEERING

HEAD:

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

DEPARTMENT SECRETARY:

Mrs. Mary McLoughlin

STAFF LECTURERS:

G. Caffrey, MIEI
J. Flood, BE, MSc
W. T. C. Grimson, BA, BAI, MSc
M. O'Halloran, BE(Elect), AMIEE
K. Sullivan, DipEE, MSc, MIEI

PART-TIME LECTURERS:

P. Cadden, AMIEE
T. Doyle, BA, BAI
J. Fennell, MIEI
P. Kavanagh, BSc(Eng), DipEE
E. Kennedy, DipEE, BSc
P. Martin, DipEng, BSc(Eng), MIEI
J. Ryan, BSc, DipEE
P. Smith, DipEng, BSc(Eng)

TECHNICAL STAFF:

T. Kelly, TechEngDip(ElectEng)
L. Quinn, FTC(EEP), GradITE
N. McCaughey, TechEngDip(ElecEng)

DEPARTMENT OF ELECTRONIC AND COMMUNICATIONS ENGINEERING

HEAD:

Bartholomew J. O'Connor, CEng, MIERE

ASSISTANT HEADS:

Christopher Cowley, CEng, MIERE,
AMIEE
Matthew Rice, CEng, MIERE, MIEI

DEPARTMENT SECRETARY:

Mrs. Mary McLoughlin

STAFF ELCTURERS:

C. Bruce, DipTechSc, DipEE, CEng, MIEE
T. Clancy, GradIERE
J. Dalton, BE
C. Downing, BE, MEngSc, MIEI
G. Farrell BE
M. Gara, C & G FTC(Telecom)
D. Harley, TEng(CEI), FSERT, PMGCert, -
Radar Cert
T. Hartigan, TEngDip
T. Lawless, FSERT, TEng(CEI, CGLI(FTC)
E. R. Lynch, BE(Elect)
J. Mahon, TEng(CEI), FSERT, PMGCert,
Radar Cert
P. Murray, MIERE
S. O'Donnell, MIEEE, FTC(CGLI)
B. A. O'Sullivan, BSc, PhD, AMIEE
P. Rainsford, BE, MEng
J. Russell, PMGCert, Radar Cert
E. G. Seale, GradIERE
P. Tobin, DipEE, MIEI, C & G FTC
M. Tully, GradIERE
T. P. O'Brien, MIERE
PART-TIME LECTURERS:
D. P. Beswick, CGLI
Martin Burke, GradIERE
Frederick Cleary, C & G FTC
Ciaran Creamer, BScAppSc
Mark Damery, BSc, DipEE
Bernard Donne, BSc(Eng)
M. O'Fiannachta, BEChEng, MIEE
M. Flood, GradIERE
Brian Garry, BSc, Dip, EE

Michael Goggin, ChEng, MIEE, MIEI
R. Halpin, CEng, MIERE, C & G, FTC
Liam Hamilton, BSc(Eng)
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
Barry Reynolds, BE
James Roche, DipEE, BSc
James Sailsbury, BE, MSc
F. Sloane
Harry Smith
Victor P. Thorne, PMF Radar Cert
Paul Walsh

Mary Ryan, BA, HDipEd
Daragh Smyth, BSocSc, DipEd
Colette Weaire, MA

PART-TIME LECTURERS:

Peter Bohan, BSc, HDipEd
Eve Downey, BA(Mod)
Jutta Kankel Breatnach, Dipl-Ubers
Christa Droth-Wagner, Staatsexamen
Michael Hofstadt, Staatsexamen
Peter Lennon, BBS
Linda McCarthy, BA, HDipEd
Michael Mulreany, MA, HDipEd
Mary Nolan, MA
Mary O'Brien, BA, HDipEd
Philip O'Brien, BA, Barrister at Law
Almut Schlepper, Staatsexamen
Rhaya Wall, Maitrise-es-Lettres

TECHNICAL STAFF:

Anthony Breen

**DEPARTMENT OF LANGUAGES
AND INDUSTRIAL STUDIES**

HEAD:

Miss Kathleen M. Tierney, MA

ASSISTANT HEADS:

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

DEPARTMENT SECRETARY:

Mrs. June Carroll

STAFF LECTURERS:

Christina Albertini, MA
Josianne Deloire, Licence es Lettres,
Maitrise es Lettres Modernes
Mary Faulkner, BA, HDipEd
Paul Gilmer, BA, BHd, BD
Marie Guilfoyle, BA, HDE
Brendan Halligan, BA, MA
Seamus Lynch, MEconSc, MA, BComm,
DPA
Robert McMahon, BComm, MBS
Jennifer Moreton, MA, HDipEd
Kathleen Muldowney, BA, HDipEd
Janet Ryan, MA, HDipEd

**MECHANICAL WORKSHOPS
AND DRAWING UNIT**

LECTURERS-IN-CHARGE:

Patrick Connell, (Workshops)
David Naessens, (Drawing)

STAFF LECTURERS:

B. Goulding
R. Hatton
P. McGloin

PART-TIME LECTURERS:

D. Byrne
J. Byrne
P. Chaney
J. Connell
P. O Duill
P. Gallagher
G. Graham
G. Keeley
K. Howell
T. Lavery
E. Oakes
S. O'Flynn
L. Philips

TECHNICAL STAFF:

P. O'Reilly
M. Scanlon

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
W. Fitzsimons
J. Humphries
Mrs. M. Long
P. Maguire
B. Mealy

TECHNICAL STAFF:

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

**DEPARTMENT OF ELECTRICAL
INSTALLATION****HEAD:**

Desmond McManus, FTC(EEP), C & G

ASSISTANT HEADS:

G. Murphy, BA, MEd(Hon), TEng(CEI)
HDipEd, MIElectIE
J. O'Donnell, BA, TEng, HDipEd,
(CEI), MIElectIE

LECTURER-IN-CHARGE:

Ignatius Tighe

DEPARTMENT SECRETARY:

Miss Margaret O'Keefe

STAFF LECTURERS:

E. Barber, Final (EEP), C & G
J. Boyle, TEng (CEI), MIElectIE, FTC,
(EEP) C & G
R. Byrne, BA, FTC (EEP), C & G,
HDipEd
J. Cahill, TEng (CEI), MIElectIE
T. Colohan, FTC(EEP), C & G
P. Cosgrove, FTC (EEP), C & G
J. Davis, FTC (EEP, C & G
T. Dillon, BT, ITC(EEP), C & G, HDipEd
G. Eastwood, Final (EEP) Dept of Ed
G. Farrelly, HNC(EE), ETC(C&G)
M. Farrelly, Tech (CEI), MSERT, C & G
P. Gough, Final (EEP), C & G, Final (EEP)
Dept of Ed
T. Grandison, FTC(EEP), C&G, MIElectIE
K. Kelly, TEng (CEI) MIElectIE
V. Kenny, TEng (CEI), MIElectIE
S. Lyons, Final (EEP), C&G, MIElectIE
M. Maher, TEng (CEI), FTC, MIElectIE,
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
K. O'Farrell, FTC, C&G (EEP), Dept of Ed
R. O'Rourke, FTC(EEP), C & G
S. Sludds, BA, FTC(EEP), C & G, HDipEd
W. Traynor, FTC(EEP), C&G, TEng
(CEI), MIElectIE

PART-TIME LECTURERS:

F. Ashworth
P. Behan
D. Braiden
D. Breen
M. Breen
B. Casey
T. Carton
G. Eastwood
M. Evans
P. Gough
A. Grant
P. Green
G. Hartigan

A. Jameson
K. Kelly
J. Kenny
D. Lalor
B. McNally
N. Minihan
B. Murphy
P. Neill
J. O'Driscoll
K. O'Farrell
C. Quinn
M. B. Roberts
G. Ryan
D. Sheedy
L. Trundle

TECHNICAL STAFF:

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

PHYSICAL EDUCATION UNIT

LECTURER-IN-CHARGE:

S. Byrne, BA, DipPE, DipEd
London University
Ken Doyle
A. Byrne
J. Delaney
R. Greenlee
C. Hardy
D. Levey
J. McMahon
A. Carey
D. Tully
L. Murray
P. Seaman
K. Bannon
F. Byrne

CHAPLAINS

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

ADMINISTRATION

SECRETARY/REGISTRAR:
David C. Spring

ACCOUNTS OFFICE:
Frances Cavanagh

REGISTRATIONS/ADMISSIONS OFFICE:
Honora Fleming

EXAMINATIONS SECRETARY:
Mairead Mullen

SECRETARY TO THE PRINCIPAL:
Anne-Marie O'Connell

SECRETARY TO REGISTRAR:
Linda Roche

CLERICAL STAFF:

James Behan
Baurice Boland
Catherine Byrne
Mrs. Mary Browne
Yvonne Greagsbey
Joan Horgan
Mrs. Lillian Nolan
Brenda McClean
Colm O'Regan
Dymphna White

TECHNICAL STAFF:

Elma Flanagan, MSGAI
A. Cromie, AMIRT, (C & G)
C. Ingle, MIRT, (C & G)

SENIOR LIBRARIAN:
Mary Davis, BSc, DipLib

MAINTENANCE SUPERVISOR:
Andrew Farrelly

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 1985-86 will not be effected before September 1st 1985.
2. Application for the courses listed below should be made to the CAP (Central Applications Office), Tower House, Eglinton Street, Galway on the appropriate form available on request from the CAO. (Closing date – 1st February 1986). 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 directly to the College and not to the CAO (closing date – 1st February 1986).

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

3. Applicants for any of the courses listed below, including special cases, should apply by completing the standard application form available on request from:—

**The Admission's Office,
Dublin Institute of Technology,
14 Upper Mount Street,
Dublin 2.**

Completed application forms should be forwarded to the above address by 1st March 1986 with the application fee of £5. Application forms will be accepted after that date up to 1st March 1986 accompanied by a free of £10.

College Course Code	Course Description
WML	Certificate in Medical Laboratory Sciences
WMT	Technician Diploma in Computer Science
WAS	Technicians' Diploma in Applied Science
WSO	Diploma in Ophthalmic Optics
WBT	Diploma in Bakery Production and Management

WEET	Technicians' Engineering Diploma/Electrical Engineering
WRTT	Technicians' Engineering Diploma/Telecommunications & Electronics
WRS	Technician Diploma in Electronic Engineering
WRCE	Technician Certificate in Electronics
WLSF	Certificate in European Languages/Business Studies

4. In the session 1985-86, the latest date for admission of students to classes commencing in the first term is 16th October, 1985. 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, 1985.

5. Intending students should note the statement on Entry Requirements for admission to the College on page 23. 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.

6. 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.

7. **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 any student who does not show his/her Official Receipt.**

8. Fees are not refundable except where a class or course does not form.

9. 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 £2 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.

10. 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.

11. Change of address or place of employment should be reported to the Secretary/Registrar immediately.

12. 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.

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

**Attendance,
etc., at classes
and courses**

1. Day classes will normally be held between 9 a.m. and 6 p.m. each weekday except Saturday. Evening classes will normally be held between 6 p.m. and 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, project work or other assigned work 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.

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 external examining 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 examining body 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, 20th

February, 1986 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 1986 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 25.

(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 1985/86 are: £20 for all Certificate and Diploma examinations or any part thereof.

(iv) Applications for entry to examinations received after 20th February, 1986 in the case of Summer examinations and after 14th July, 1986 in the case of Autumn examinations, will be considered by the College only where they are accompanied by a Late Entry Fee of £20. Under no circumstances will applications for entry to examinations be considered if received later than 31st March 1986 in the case of summer examinations or 5th August 1986 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.

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 at these examination sittings will not normally be re-admitted to the course or permitted to resit the examination in later years, except with the special permission of the College Authority. Where such special permission is granted it shall extend to the following Summer and/or Supplemental sitting of the same examination only.

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

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 enquires should be made as early as possible in the Examinations 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 written application on the standard form to the Principal within seven 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 a fee of £30.00 (non-returnable).

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 27th September, 1985. 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.

ESF Training Grants

ESF (European Social Fund) training grants may be available to Irish students aged between 16 and 25 years while they are pursuing the first two years of certain courses provided their attendance record and general performance is satisfactory. These grants cover tuition fees and

also provide for payment of a monthly allowance. The courses which were included in the scheme in the 1984/85 session were those listed in the table – section 3 – on Page 18 with the exception of course WSO.

**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 BSc. 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 Classrooms, Laboratories, Lecture Theatres, workshops, gymnasium or library. Locker accommodation is available for a considerable number of students on payment of a fee of £15 per session. This includes a deposit of £10, returnable only if the locker is vacated within seven days of the expiry of the period for which it has been granted, and the official receipt is returned when seeking the refund.
5. Parking of bicycles is permitted only in the space provided by the College. Students are not permitted to bring cars into the College grounds. Motor cycles may be parked only in the space provided behind the Church Lane building.
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). It is normally open also from 9.30 a.m. to 5.00 p.m. on Saturdays.

Student Services Since September 1981, a centralised Student Services Office has provided support services to the students of all third level courses in the Dublin Institute of Technology in the areas of welfare, sporting and social activities. The Office operates under a Student Services Council, consisting of the College Principals (or their nominees) and the Students' Union Presidents. The Council is assisted by three working parties, representative of staff and students, to oversee the day to day work in these three areas and it has a pool of information and expertise available to any student in the colleges of the Dublin Institute of Technology who feels that he/she needs advice or assistance.

From late August every year, a comprehensive list of boarding house accommodation is available from the Student Services Office. There are separate lists for the Northside and the Southside, and while boarding houses predominate, there is also some information available on a number of flats and bed sittingrooms.

More detailed information can be had from the Student Services Office, 14 Upper Mount Street, Dublin 2, telephone 766584 or 762652, or from the College Students' Union. The Office plans to produce a regular newsheet, the 'Student Services Bulletin', during the year to keep students up to date on its activities.

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

(a) For Diploma Course in Applied Sciences: Grade C or higher in two subjects taken at Higher Level (one of which must be Mathematics or Applied Mathematics or 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 Honours Diploma Course in Electrical/Electronic Engineering: Grade C or higher on Higher Level Papers in Mathematics and a suitable Science subject i.e. Physics, Chemistry, Physics with Chemistry, Applied Mathematics or Mechanics.

Pass levels in four other subjects in the Leaving Certificate examination including English. The entrance requirements for this course for Session 1986/87 are revised and are noted later in this booklet.

(c) 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.

(d) 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.

(e) Students holding the Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or a Science subject will satisfy the entrance requirements for courses in the Dublin Institute of Technology 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.

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

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

(h) 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.

(i) Where the entry requirement to a particular course is other than as stated in (a) to (f) 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.

ALL COURSE AND EXAMINATION FEES QUOTED ARE FOR SESSION 1985/86 AND ARE SUBJECT TO REVISION.

WHOLETIME DEGREE/PROFESSIONAL COURSES

DIPLOMA IN APPLIED SCIENCES

College Code: WSAD

CAO Code: FT 22

Duration: Four years wholetime.

Description of Course: This course has been designed to cover those areas of Physics, Chemistry and Mathematics, which will be of the widest application in Industry and being a course in combined sciences, it provides for greater flexibility in the fields in which graduates may usefully be employed. There is considerable emphasis in the course on practical and applied work. The Diploma will be awarded in terms of the technical options studied for the final three years of the course as follows:

Physics and Chemistry
Physics and Mathematics
Chemistry and Mathematics.

In the final year a research/development project is undertaken by each student on one of the subjects in the option they have chosen. In the past a number of these projects have led to post-graduate research while others have led to products with commercial potential.

Minimum Entry Requirements: Irish Leaving Certificate in six subjects, including Mathematics and English, with grade C or higher in two subjects on higher level papers, one of which must be Mathematics, Applied Mathematics or a Science subject i.e. Physics, Chemistry, Physics with Chemistry, Biology or Mechanics

or

Such qualification as the College may deem equivalent.

Note: It must be emphasised that the above are the minimum entry requirements for the course. Because of the large numbers seeking entry a much higher standard is necessary in practice to gain a place. From Session 1986/87 onwards, a minimum of Grade B in Ordinary Level Mathematics will be required.

Application Procedure: Applicants should apply on the standard C.A.O. application form to the;

Central Applications Office,
Tower House,
Eglinton Street,
Galway.

Closing Date: 1st February.

Course of Study: **First Year:**
Physics – Electricity and Magnetism, Thermal and Mechanical Properties of Matter, Mechanics, Modern Physics, Geometrical Optics, Vibrations and Waves, Physical Optics.

Mathematics – Calculus and Linear Algebra, Computing, Mechanics, Chemistry – Inorganic.

Chemistry – Inorganic Chemistry, Physical Chemistry, Organic Chemistry.

Management Studies.

Language – French or German.

Second Year:

Physics – Circuit Theory, Physical Electronics, Electromagnetic Theory, Mechanics Quantum Physics and Relativity, Wave Theory, Geometrical & Physical Optics, Thermodynamics, Kinetic Theory, Workshop Practice.

Mathematics – Linear Algebra, Numerical Analysis, Statistics 1 & 2 Analysis, Differential Equations.

Chemistry – Analytical Chemistry, Physical Chemistry, Organic Chemistry, Inorganic Chemistry, Industrial Chemistry.

Ancillary Mathematics – (For those students who have not taken the Mathematics option).

Management Studies.

Language – French or German.

In the second or subsequent year students take two out of three major science subjects (Physics, Mathematics and Chemistry).

Third Year:

Physics – Atomic and nuclear physics, solid state physics, electromagnetism and applied optics, electronics, microprocessors, topics from applied bio-physics.

Mathematics – Mathematical methods of classical mechanics, mathematical methods for quantum science, numerical analysis, complex analysis, algebraic structures and metric and topological spaces.

Chemistry – Applied Physical Chemistry, Analytical Chemistry, Applied Inorganic Chemistry, Applied Organic Chemistry.

Ancillary Mathematics – (For those students who have not taken the Mathematics option).

Management Studies.

Language – French or German.

Fourth Year:

Physics – Solid state Physics, Thermodynamics and Statistical Physics, Electrical and Electronic Instrumentation, Modern Applied Optics, Radiation and Nuclear Physics, Acoustics, Lasers, Opto-electronics and Applied Holography, Topics from Applied Bio-physics.

Students take the first four subjects and two out of the last four subjects. All combinations of the latter will not necessarily be offered in any given year.

Mathematics – Ordinary Differential Equations, Boundary value problems, Operator Theory for Quantum Science, Linear Programming, Applied Mathematics for the Physical Sciences, Mathematical Statistics or Applied Statistics and Numerical Analysis.

Students take the first four subjects and one out of the last four options. Only one of the subjects Mathematical Statistics and Applied Statistics will be available in any one year.

Chemistry – Applied Organic Chemistry, Applied Physical Chemistry, Applied Inorganic Chemistry, Project.

Awards:

Graduates of this course are eligible for the following awards:

Diploma in Applied Sciences (Dublin Institute of Technology)
Bachelor of Science (Applied Science) (University of Dublin)

with grades of Pass, Second Class Honours or First Class Honours as appropriate.

The Institute of Physics has recognised the qualifications of graduates who have taken the Physics and Mathematics or the Physics and Chemistry options as satisfying the academic requirements for Corporate Membership of the Institute, the former being allocated to Schedule A under the Institute Schedule of Recognised Qualifications and the latter to Schedule B (1).

Career Opportunities:

The main thrust of the course is towards industrial and commercial applications of the various sciences. The graduates of the course are uniquely qualified for employment in a wide range of industries and also for post-graduate research. In the past, graduates have gone on to such post-graduate work here in Ireland and abroad in France, Canada and the United States. Others have gone into private industry both at home and abroad, while others have gone into the public service, hospitals, electricity supply and telecommunications. Some have embarked on careers in education.

For further Information:

Dr. D. C. Hickey, Department of Physics.
Telephone: 757541 ex. 336.



DIPLOMA IN DIETETICS AND NUTRITION BSc (Human Nutrition)

- College Code:** WBD
- CAO Code:** FT 23
- Duration:** Four years wholetime.
- Description of Course:** This Degree Course is run jointly by the Dublin Institute of Technology (College of Technology, Kevin Street) and the University of Dublin (Trinity College).
- This 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. This includes six months hospital internship and also a period of practical Catering Administration and Management.
- Minimum Entry Requirements:** Irish Leaving Certificate in six subjects with grade C or higher in three subjects on higher level papers, one of which must be Chemistry. Subjects must include Mathematics and English at either level
- or
- Such qualification as the College may deem equivalent.
- Note:* It must be emphasised that the above are the minimum entry requirements for the course. Because of the large numbers seeking entry a minimum of Grade C or higher on five higher level papers may be required in practice before an applicant would be called for interview.
- Application Procedure:** Applicants should apply on the standard C.A.O. application form to the;
- Central Applications Office,
Tower House,
Eglinton Street,
Galway.
- Closing Date:** 1st February.
- Course of Study:** **First Year:**
Mathematics, Physics, Chemistry, Biology, Food Science,
Communication Studies, Technical French.
-

Second Year:

Biochemistry, Physiology, Nutrition Dietetics, Medicine, Food Services, Microbiology, Statistics Computation, Communication Studies, Technical French.

Third Year:

Biochemistry, Nutrition Dietetics, Medicine, Clinical Studies, Food Science, Microbiology, Computer Science, Communication Studies and Management Studies.

Fourth Year:

Nutrition, Dietetics, Communication Studies and Management Studies.

Awards: Graduates of this course are eligible for the following awards:

Diploma in Dietetics & Nutrition (Dublin Institute of Technology).
B.Sc. (Human Nutrition) (University of Dublin).

with grades of Pass, Second Class Honours and First Class Honours as appropriate.

Career Opportunities:

Nutrition as a science is a relatively young discipline. The scientific study of nutrition was not possible until the development of the chemical, physical and biological sciences throughout the 19th century. These foundations have been consolidated and the new fields investigated. The application of this scientific knowledge for the improvement of health and the prevention of disease requires an understanding of many factors. A career in nutrition may appeal to those who are interested in nutrition, have an aptitude for science and for work in medical, social or scientific fields.

Graduates from this course are equipped to find employment in many different spheres of nutritional work. In this country, at present, the majority of posts held by graduates are in the Hospital Service in therapeutic dietetics or metabolic studies.

Other areas where posts are slowly becoming available in which graduates have obtained employment include: Public Health or Community Nutrition, Preventative Medicine and Health Education, Food and Pharmaceutical Industries Research.

For Further Information:

Ms. Mary Moloney,
Department of Biological Sciences.
Telephone: 757541.

DIPLOMA IN OPHTHALMIC OPTICS

College Code:	WSO
Duration:	Four years wholetime.
Description of Course:	This is a course leading to a Diploma in Ophthalmic Optics and providing the education and training statutorily required for entrants to the profession by the 'Opticians' Act, 1956, and the Rules made thereunder. The course is approved by Bord na Radharcmhastoiri (the Opticians' Board) which is the Registration Authority set up under the Act. Holders of the Diploma in Ophthalmic Optics must also satisfy the Council of the Association of Ophthalmic Opticians, Ireland, on their clinical competence.

The period of supervised practice, taken after the successful completion of the third year of the course, is of particular value in developing the practical clinical skills of the students. On return to the College for the completion of this final year, students are assigned an investigative project which helps to relate some of the theoretical aspects of the course to the clinical skills acquired.

Entrance Requirements:	Irish Leaving Certificate in six subjects with Grade C or higher in at least two higher level papers; subjects must include Mathematics and English at either level
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or

Such qualification as the College may deem equivalent.

Some qualified applicants will be called for interview.

Note: It must be emphasised that the above are the minimum entry requirements for the course. Because of the large numbers seeking entry a much higher standard is necessary in practice to gain a place.

Application	Applicants should apply on the standard D.I.T. Application Form to:
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The Admissions Office,
Dublin Institute of Technology,
14, Upper Mount Street,
Dublin 2.

Closing Date:	1st February.
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Course of Study:	First Year: Mathematics, Chemistry, Physics, Biology, Technical German, Industrial Studies, Workshop Practice.
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Second Year:

Statistical Methods, Anatomy and Physiology, Biochemistry, Geometrical and Physical Optics, Optical Dispensing, Visual Optics, Technical German, Industrial and Related Studies.

Third Year:

Visual Optics and Instruments, Bio Contact Lenses, Optical Dispensing, Technical German, Abnormal Ocular Conditions, Ophthalmic Practice, Physiology of Vision, Industrial Studies, Law and Ethics.

Fourth Year:

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

Awards:

Graduates of the Course are eligible for the following awards:

Diploma in Ophthalmic Optics (Dublin Institute of Technology).

with the grades of Pass, Second Class Honours or First Class Honours as appropriate.

Graduates who have passed the examination of the Association of Ophthalmic Opticians, Ireland, may, if elected to Membership, be awarded the:—

Fellowship of the Association of Ophthalmic Opticians, Ireland (F.A.O.I.)

Career

Opportunities:

The majority of Ophthalmic Opticians are in individual private practice. Some are in partnership with Colleagues and a few find employment in the larger practices. Their primary purpose is the examination and assessment of the visual function and advising and prescribing for visual defects. Practitioners may also choose to specialise in the fields of contact lenses, environmental vision or the care of the partially sighted.

For Further Information:

Mr. K. P. Culliton,
Department of Physics,
Telephone: 757541 ext. 235.

COUNCIL OF ENGINEERING INSTITUTION'S PART 2 EXAMINATION

- College Code:** WCE
- Duration:** One year wholetime.
- Description of Course:** This course covers certain subjects of the CEI Part 2 Examination for students who have completed an approved Technician Engineer Diploma course.
- Entrance Requirements:** 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 of Study:** 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.
- For Further Information:** Mr. B. J. O'Connor,
Head, Department of Electronic and Communications Engineering.
Telephone: 757541.

HONOURS DIPLOMA IN ELECTRICAL/ELECTRICAL ENGINEERING

- College Code:** SEE
- CAO Code:** FT 21
- Duration:** Four years wholetime.
- Description of Course:** This course is designed for the education of electrical/electronic engineers to an honours degree level. There is a moderate degree of specialisation in one of the following fields:
- Electrical Power
Control Systems and Instrumentation
Electronics, Communications and Computers.**
- The content of the course includes lectures, tutorials and, where appropriate, practical and laboratory work. The first two years of the course are common to all options. At the beginning of the third year students commence their specialist option which extends over the final two years.
-

Minimum Entry Requirements: Irish Leaving Certificate in six subjects with grade C or higher on higher level papers in Mathematics and a suitable Science subject i.e. Physics, Chemistry, Physics with Chemistry, Applied Mathematics or Mechanics. Subjects must include Mathematics and English at either level.

or

Such qualification as the College may deem equivalent.

Note: It must be emphasised that the above are the minimum requirements for the course. Because of the large numbers seeking entry a much higher standard is necessary in practice to gain a place.

The entrance requirements for the 1986/87 session will be as follows:—

Passes in six subjects in the Irish Leaving Certificate including English and Mathematics, with Grade C or higher on higher level papers in both Mathematics and Physics *or* such qualifications as the College may deem equivalent.

Application Procedure: Applicants should apply on the standard C.A.O. application form to the;

Central Applications Office,
Tower House,
Eglinton Street,
Galway.

Closing Date: 1st February.

Course of Study: **Year I:**
Mathematics, Applied Mechanics, Physics, Properties of Materials, Electricity, Electronics Systems, Engineering Practice, Business and Management Studies, Language (French/German)

Year II:
Mathematics, Physics, Field and Circuit Theory, Signal and System Theory, Electronics, Computer Systems, Electrical Machines, Measurements and Instrumentation, Business and Management Studies, Language (French/German)

Year III:

Subjects common to all options

Mathematics, Business and Management Studies, Language (French/
German)

Electrical Power Option

Circuit Theory, Field Theory, Applied Thermodynamics, Electrical
Power, Control Systems and Instrumentation, Electronics.

Control Systems and Instrumentation Option

Circuit Theory, Field Theory, Electronics, Signal and System Theory,
Control Systems I, Control Systems II.

Electronics, Communications and Computer Option

Circuit Theory, Field Theory, Signal and System Theory, Electronics,
Computer Systems, Communications Engineering.

Year IV:

Subjects common to all Options

Mathematics, Business and Management Studies.

Electrical Power Option

Circuit Theory, Electronics, Electrical Power, Control Systems and
Instrumentation, Project.

Control Systems and Instrumentation Option

Circuit Theory, Electronics, Control Systems I, Controls Systems II,
Project.

Electronics, Communications and Computer Option

Signal and System Theory, Electromagnetic Field Theory, Electronics,
Computer Engineering, Communications Engineering, Project.

Awards:

Graduates of this course are eligible for the following awards:

Diploma in Electrical/Electronic Engineering (Dublin Institute of
Technology)

Bachelor of Science (Engineering) (University of Dublin)

with grades of Pass, Second Class Honours or First Class Honours as appropriate.

They are also eligible for membership of the Institution of Engineers of Ireland.

Career Opportunities: Graduates of the course are employed in all areas of Electrical/Electronic technology, including Computer Engineering, Electronics, Telecommunication, Automatic Control and Electrical Power.

For Further Information: Dr. J. Fisher, Head,
Head, Department of Electrical Engineering.
Telephone: 757541.



PART-TIME PROFESSIONAL COURSES

GRADUATESHIP OF THE INSTITUTE OF BIOLOGY

College Code: PSIB

Duration: Three years, one afternoon and two evenings per week.

Description of Course: This is a three year part-time course leading to the Graduateship of the Institute of Biology Part II examination. Graduateship of the Institute of Biology is recognised as being equivalent to an Honours Degree.

Entrance Requirements: **Part I:**
An approved Diploma in Biology, Chemistry, Medical Laboratory Sciences or Food Technology. A suitable BSc General Degree may be considered for exemptions from the Part I course.

Part II:
A pass in the Part I examination of the Institute of Biology or an appropriate BSc General Degree or Fellowship of the Institute of Medical Laboratory Sciences.

Application Procedure: Applicants should apply on the standard DIT application form to:
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.

Course of Study: The course consists of two parts:—

Part I:
Comprises the first year during which two thirds of the time is given to Principles of Biology. This syllabus, written and examined by the Institute is a broad review of biology, covering General Principles, Energetics, Physiology of animals and plants, Genetics, Environmental Biology and Statistics. The aim throughout is to encourage the student to read widely and to recognise that biology is a quantitative science.

The remaining time during the first year is used to study enzymes and the structural aspects of carbohydrates, lipids, nucleic acids and proteins.

Part II:

Comprises the second and third years of the course. During the second year, the topics covered include, analytical methodology, metabolism and metabolic regulation, cell biology, immunology, molecular genetics and computer methods. A laboratory course to supplement the lectures is also included.

The final year of the course takes a more applied approach, and builds on the knowledge of the previous two years. Subject areas covered include, Applied Aspects of Microbial and Plant Biochemistry, an Introduction to Biotechnological Engineering, Commercial Aspects of Enzyme and Animal Products, Applications of Cell Biology, Genetic Engineering and Radioisotopes.

Also included in the Part II of the course is the project which is an independent investigation which should take some 70 hours of course time. The investigation should be planned to give a definite answer at the end of the investigation. The project is carried out under the supervision of a member of staff, and if performed at the student's place of work, a supervisor at the place of work is also required who will certify that the project is not simply part of the student's normal daily work. The report of the project should consist of an abstract of about 300 words and the report should "normally be between 5,000 and 7,000 words, excluding figures, tables and bibliography."

Examinations: Part I of the Graduateship of the Institute of Biology examination taken at the end of first year, consists of two papers in Principles of Biology and one in Biochemistry. Assessments and essays contribute to the final mark.

Year 2 – College based sessional examinations which will contribute to the assessment component of the final examination, and which will be used to regulate a student's progress into the final year of the course.

Part II of the Graduateship of the Institute of Biology examinations consist of four papers in Biochemistry, the Project and Assessment Components. An oral examination, carried out by members of the Institute is also included. Honour gradings only are given in these examinations requiring a pass mark of 50%.

For Further Information: Dr. Patrick J. Davey,
Department of Biological Sciences,
Telephone: 757541 ext. 239.

GRADUATESHIP OF THE ROYAL SOCIETY OF CHEMISTRY

- College Code:** PSIC
- Duration:** Four years part-time.
- Description of Course:** The GRSC is an honours degree qualification in chemistry and is universally accepted as such e.g. it is recognised by the Department of Education for the Honours Degree allowance for teachers and by universities for Ph.D. research.
- Entry Requirements:** Entry to the course is subject to the approval of the Royal Society of Chemistry. Usually an NCEA Certificate obtains entry to the first year and a general degree gains exemption from Part I.
- Curriculum:** The first two years of the Course lead to Part I and the last two years to Part II. Each year involves two afternoons (or one whole day) (6 hours) and two evenings (6 hours).
- Application Procedure:** Applicants should in the first instance apply to the:—
Royal Society of Chemistry,
30 Russell Square,
LONDON,
WC1B 5DT
- The Society will inform applicants as to which year of the course they are qualified to enter.
- Applicants should then make application on the standard DIT application form to:—
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.
- Closing Date:** 23rd September.
- For Further Information:** Mr. Sean Hamill,
Department of Chemistry,
Telephone: 757541.
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FELLOWSHIP OF THE INSTITUTE OF MEDICAL LABORATORY SCIENCES

College Code:	S. 10
Duration:	Two years part-time.
Description of Course:	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.
Entrance Requirements:	Associateship of the Institute of Medical Laboratory Sciences and Diploma in Medical Laboratory Sciences or equivalent.
Application Procedure:	Applicants should apply on the standard DIT application form to: Registration Section, College of Technology, Kevin Street, Dublin 8.
Closing Date:	31st August.
Course of Study:	The course is based on the study guide published by the IMLS and is provided as a Part-time Day/Evening Course or as a Block Release Course for students outside the greater Dublin area. 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 to 3,000 words.
Examinations:	Continuous assessment: Multi-choice, multi-part, essay questions will be set during the two years.
Awards:	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.
Further Study:	A limited number of places are available for graduates to proceed for M.Sc. degrees in Irish Universities. Graduates may apply for exemption of the Part I examinations of the Institute of Biology.

Career Opportunities: The Fellowship of the Institute of Medical Laboratory Science is the required qualification for Technologist and Chief Technologist posts in the Medical Laboratory services.

Other areas of employment include Veterinary, Pharmaceutical and Research Laboratories. A small number choose to work in Industry and Education. There are an increasing number of career opportunities in developing countries for short term and long term assignments of experienced Medical Laboratory scientists.

For Further Information: Mr. Thomas G. Scott,
Department of Biological Sciences,
Telephone: 757541.

DIPLOMA IN APPLIED PHYSICS

College Code: PSAP

Duration: Two years part-time.

Description of Course: This Course leads to a Diploma in Applied Physics (with honours classification). It replaces the Graduateship of the Institute of Physics examinations which have terminated. The Institute of Physics has recognised this course as satisfying the academic requirements for Corporate Membership of the Institute.

Entrance Requirements: Applicants will be required to satisfy an Interview Board regarding their suitability for the course. In general, those who are admitted must possess a B.Sc.(Gen) in either two or three subjects, one of which must be Physics

or

The Technician's Diploma in Applied Science (Physics Option) with credit or distinction of the Dublin Institute of Technology. Applicants with qualifications and/or experience other than those specified above, may be specially considered.

Application Procedure: Applicants should apply on the standard DIT application form to:
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.

Class Attendance Two afternoons and two evenings per week for two years.

Requirements:

Course of Study:

First Year:

Mathematics, Optics, Thermal Physics, Solid State Physics, Atomic and Nuclear Physics, Electromagnetism and Electronics, Physics practical.

Second Year:

Core subjects: Atomic and Nuclear Physics, Applied Optics, Statistical Thermodynamics, Solid State Physics.

Optional subjects (two to be chosen): Opto-electronics, Electronics, Acoustics, Medical Physics, Topics in Mathematical Physics, Project.

Examinations:

Examinations will be held in the six subjects at the end of the first year. The practical assessment will also count as one paper. Students whose progress during the first year of the course is unsatisfactory, will not be permitted to enter second year.

The Diploma examination at the end of the second year will consist of two core papers, two optional papers and the project.

Award:

Graduates of this course are eligible for the following award:

Diploma in Applied Physics (Dublin Institute of Technology)

with grades of Pass, Second Class Honours or First Class Honours as appropriate.

For Further Information:

Mr. F. E. FitzSimons,
Department of Physics,
Telephone: 757541.

MEMBERSHIP OF THE INSTITUTE OF STATISTICIANS

College Code: M6

Duration: Four years (evenings).

Class Attendance Requirements: 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.

Application Procedure:

Applicants should apply on the standard DIT application form to:
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date:	23rd September.
Course of Study:	<p>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.</p> <p>The Institute may grant exemption from the Preliminary Examination and in certain cases the Part 1 examination, to candidates with suitable qualifications.</p> <p>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</p> <p>Second Year: The State 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</p> <p>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 Method</p> <p>Fourth Year: The State 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.</p>
For Further Information:	Mr. I. A. Kinsella, Department of Mathematics, Statistics and Computer Science. Telephone 757541, Ex. 334.

GRADUATESHIP OF THE INSTITUTE OF MATHEMATICS AND ITS APPLICATIONS

College Code:	M7
Duration:	Two years (evenings).
Entry Requirements:	Licentiate'ship of the Institute of Mathematics and its Applications. (This may normally be obtained by holders of a university degree with mathematics at the General Degree level or its equivalent.)

Class Attendance Two years: two evenings per week.

Requirements:

Application Procedure: Applicants should apply on the standard DIT application form to:
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.

Course of Study: The Graduateship Examination, Part II, consists of four papers, one of which is compulsory.

Mathematical Methods and three papers chosen from a list to options.

Applicants should consult the Head of the Department regarding the options which the College is prepared to offer.

Award: Candidates normally sit the Part II Graduateship Examination at the end of the second year. Students are advised to familiarise themselves with the regulations of the Institute.

For Further Information: Dr. T. A. Ambrose, Assistant Head,
Department of Mathematics, Statistics and Computer Science,
Telephone: 757541 ext. 221.

MEMBERSHIP OF THE BRITISH AND/OR IRISH COMPUTER SOCIETY

College Code: M8

Duration: Four years (evenings).

Entry Requirements: Applicants should already be in suitable employment in the Computer Industry.

Class Attendance Requirements: Four years: two evenings (3 hours) per week.

Application Procedure: Applicants should apply on the standard DIT application form, enclosing a curriculum vitae, to:
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date:	10th June.
Course of Study:	A course in computer science covering the examination requirements of Membership of both the British and Irish Computer Societies.
Examinations:	The examinations are set and examined by the British Computer Society. Students would sit the Part I examinations after two years and the Part II examinations after a further two years. Part I: Four Papers: Two compulsory general papers and two papers chosen from a list of options. Part II: Four Papers: Three papers chosen from a list of options.
For Further Information:	Dr. B. O'Shea, Assistant Head, Department of Mathematics, Statistics and Computer Science, Telephone: 757541 ext. 221.

DIPLOMA IN FOOD SCIENCE

College Code:	S6
Duration:	Two years: two evenings per week.
Description of Course:	A course for Science graduates who require special knowledge of food science.
Entrance Requirements:	B.Sc. or equivalent in Chemistry or Biology subjects.
Application Procedure:	Applicants should apply on the standard DIT application form to: The Registration Section, College of Technology, Kevin Street, Dublin 8.
Closing Date:	23rd September.
Course of Study:	The course deals with the chemistry and microbiology of foods as appropriate to research and quality control in the food processing industries. The subjects of the course are: (1) Chemistry, Biochemistry, Properties of Food (2) Microbiology (3) Human Nutrition (4) Production & Distribution of Food.

Awards: Graduates of this course are eligible for the following award:

Diploma in Food Science (Dublin Institute of Technology)

with grades of Pass, Credit or Distinction as appropriate.

For Further Information: Mr. John McEvoy,
Department of Biological Sciences,
Telephone 757541 ext. 314.

GRADUATE DIPLOMA IN FOOD SCIENCE AND TECHNOLOGY

College Code: S6.3

Duration: 1 year, two evenings per week.

Description of Course: This course is designed to assist candidates prepare for the Graduate Diploma in Food Science and Technology of the Institute of Food Science and Technology of the UK.

Qualifications for Admission: Diploma in Food Science from the Dublin Institute of Technology (Ref. S6) or Degree in Food Science or equivalent.

Application Procedure: Application should be made on the standard DIT application form to:
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.

Course: The following subjects are studied:

- (a) Chemistry, Biochemistry and Properties of Food
- (b) Microbiology
- (c) Human Nutrition
- (d) Principles of production and distribution of Food

Examination: The Graduate Diploma of the Institute of Food Science and Technology of the UK.

For Further Information: Mr. John McEvoy,
Department of Biology Sciences,
Telephone 757541 ext. 314.



ELECTRICAL ENGINEERING

- College Code:** EE.1
- Duration:** Two years (three or four evenings per week).
- Description:** This course covers some of the subjects of The Engineering Council's (E.C.) Part I Examination.
- Qualifications for Admission:** 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.
-

Application Procedure: Applicants should apply on the standard DIT application form to:
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.

For Further Information: Mr. J. Farrell, Assistant Head,
Department of Electrical Engineering,
Telephone: 757541.

ELECTRICAL ENGINEERING

College Code: EE.2

Duration: Two years (three or four evenings per week).

Description: This course will cover a selection of subjects in the electric power and communication fields, together with the Engineer in Society, of The Engineering Council's (E.C.) Part II Examinations.

Qualifications for Admission: Students must have completed a Technician Engineering Course in the electrical or communication field and must also have passed or have exemption from the E.C. Part 1 Examination.

Application Procedure: Applicants should apply on the standard DIT application form to:
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.

For Further Information: Mr. J. Farrell, Assistant Head,
Department of Electrical Engineering,
Telephone: 757541.

WHOLETIME TECHNICIAN COURSES

TECHNICIAN DIPLOMA IN APPLIED SCIENCE

College Code: WAS

Duration: Three years wholetime.

Description of Course: 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.
- (d) Educational Laboratories.
- (e) High technology Industries.

After the first year this course offers three options:—

Applied Biology, Applied Chemistry and Applied Physics. An important element in the final year of the project, which is an applied laboratory based problem in the major field of study.

Entrance Requirements: (a) Pass in English, Pass in Mathematics (or Applied Mathematics), Pass in three other subjects in the Leaving Certificate examination or

(b) Students holding the Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or

a Science subject will satisfy the entrance requirements for courses in DIT 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 or

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

Note: It must be emphasised that the above are the minimum requirements for the course. Because of the large number seeking entry a higher standard is necessary in practice to gain a place.

Application Procedure: Applicants should apply on the standard DIT Application Form to:
The Admissions Office,
Dublin Institute of Technology,
14 Upper Mount Street,
Dublin 2.

Closing Date: 1st February.

Course of Study: **First Year:** Physics, Chemistry, Biology, Mathematics, Industrial Studies, Drawing Assignments, Technical French or Technical German.

Second Year:

Industrial Studies, Technical French or Technical German are common to all options. Subjects taken in Second Year are detailed below in respect of each option available.

Applied Physics Option:

Physics, Electronics, Circuit Theory, Mathematics, Instrumentation and Control Systems, Materials Science, Material Physics, Photography, Acoustic and Engineering Practice.

Applied Chemistry Option:

Physical Chemistry, Inorganic Chemistry, Organic Chemistry and Industrial Chemistry. (This option is limited to 20 students in Year 2 and Year 3.)

Applied Biology Option:

Biochemistry, Microbiology, Biotechnology, Cell Biology, Mathematics (including Computer Studies), Language, Business Studies, Quality Control and Workshop Practice. (This option is limited to 12 students in Year 2 and Year 3.)

Third Year:

As in second year, Industrial Studies and Technical French or Technical German are common to each option.

Applied Physics Option:

Mathematics, Electronics and Circuit Theory, Physics, Materials Science, Instrumentation and Control Systems and Engineering Practice.

Applied Chemistry Option:

Physical Chemistry, Inorganic Chemistry, Organic Chemistry, Analytical Chemistry, Industrial Chemistry.

Applied Biology Option:

Biochemistry, Microbiology, Biotechnology, Cell Biology, Project, Business Studies, Food Science (including Instrumentation) or Biomedical Science (Haematology and Histology).

Award: Graduates of this course are eligible for the following award:—

Technician Diploma in Applied Science (Option Specified) (Dublin Institute of Technology) — with grades of Pass, Credit or Distinction as appropriate.

Career Opportunities: Applied aspects of the sciences are the major theme in the three options. Consequently career opportunities offer to the graduates in a wide range of production and service industries, such as the hospitals, higher education, electronics, chemicals and pharmaceuticals, computers, food industry and others. The graduates of this course answer the need for greater technical literacy and competence in virtually all kinds of industry, where technological change is the order of the day.

For Further Information: Re: entry to First Year, contact:
Mr. S. E. O'Flatharta,
Department of Physics.

Re: Applied Biology Option, contact:
Dr. Ray Ryan,
Department of Biological Sciences.

Re: Applied Chemistry Option, contact:
Dr. Michael Arthurs,
Department of Chemistry.

Re: Applied Physics Option, contact:
Mr. J. E. Guy,
Department of Physics.
Telephone: 757541.

TECHNICIAN DIPLOMA IN COMPUTER SCIENCE

College Code: WMT.

Duration: Three years wholetime.

Description of Course: This course is designed to meet the requirements of students seeking training as computer personnel. It provides a theoretical and practical knowledge of computers, computer programming and the computing methods in use in industry, commerce, science and research.

Entrance Requirements: (a) Irish Leaving Certificate in five subjects with Grade B or higher in Ordinary Level Mathematics; subjects must include Mathematics and English at either level.

or

(b) Students holding the Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or

a Science subject will satisfy the entrance requirements for courses in DIT which specify a pass in the Leaving Certificate Examination as the entrance Requirement. Where endorsement subjects are 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.

or

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

Note: It must be emphasised that the above are the minimum entry requirements for the course. Because of the large numbers seeking entry a much higher standard is necessary, in practice, to gain a place.

Application Procedure:

Applicants should apply on the standard DIT Application Form to:
The Admissions Office,
Dublin Institute of Technology,
14 Upper Mount Street,
Dublin 2.

Closing Date: 1st February.

Course of Study:

First Year:
Computer Programming and Computer Systems, Statistics and Business Mathematics, Mathematics, Numerical Methods, Physics, Business Studies, Technical French or Technical German.

Second Year:
Computer Programming, Algorithms and Data Structures, Hardware and Operating Systems, Statistics, Mathematics, Numerical Methods, Physics, Business Studies, Technical French or Technical German.

Third Year:
Advanced Computer Programming, Microprocessors, Hardware and Operating Systems, Information Systems and Systems Analysis, Mathematics and/or Techniques, Numerical Methods, Business Studies, Technical French or Technical German.

Awards: Graduates of this course are eligible for the following award:—

Technician Diploma in Computer Science (Dublin Institute of Technology) — with grades of Pass, Credit or Distinction as appropriate.

Career Opportunities: The course is designed to train students for the positions of programmer or programmer/analyst in the commercial and technological areas. The course content is sufficiently wide to encourage upward mobility to more senior positions in the computer industry within a few years.

For Further Information: Dr. Brendan O'Shea, Assistant Head,
Department of Mathematics, Statistics and Computer Science,
Telephone: 757541.

CERTIFICATE IN MEDICAL LABORATORY SCIENCES

College Code: WML.

Duration: Three years wholetime.

Description of Course: This course provides education in the appropriate Sciences and Technology for those seeking a career as Technicians in Medical or Veterinary Laboratories. Students of the course may apply for student membership of the Institute of Medical Laboratory Sciences.

The third year of the course is an in-service training year, during which students attend a designated training hospital laboratory for practical experience in Bacteriology, Blood Transfusion Technique, Clinical Chemistry, Haematology and Histopathology. Students are continuously assessed on their performance during the third year and 50% of the total marks in the sessional examination are allocated to the continuous assessment component. Students return to College for a number of weeks before sitting the sessional examination.

Entrance Requirements: Irish Leaving Certificate in six subjects with grade C or higher in ordinary level Mathematics. Subjects must include English and a suitable science subject i.e. Physics, Chemistry, Physics with Chemistry or Biology.

or

Such qualification as the College may deem equivalent.

Note: It must be emphasised that the above are the minimum requirements for the course. Because of the large numbers seeking entry a much higher standard is necessary in practice to gain a place.

Application Procedure:	Applicants should apply on the standard DIT Application Form to: The Admissions Office, Dublin Institute of Technology, 14 Upper Mount Street, Dublin 2.
Closing Date:	1st February.
Course of Study:	<p>First Year: Medical Laboratory Science, Biology, Chemistry, Physics, Mathematics Technical German.</p> <p>Second Year: Medical Laboratory Science, Physiology, Chemistry/Biochemistry, Physics, Statistics and Data Processing, Technical German.</p> <p>Third Year: Medical Laboratory Sciences.</p>
Further Study:	The Certificate is a requirement for entry to the Diploma course in Medical Laboratory Sciences.
Award:	<p>Graduates of this course are eligible for the following award:—</p> <p>Certificate in Medical Laboratory Sciences (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.</p>
Career Opportunities:	The Certificate is the required qualification for basic grade technician post in the Medical Laboratory Services. Other areas of employment include Veterinary and Research Laboratories. Career opportunities also exist for Medical Laboratory Scientists in developed countries and third world countries.
For Further Information:	Mr. Colm P. O'Rourke, Department of Biological Sciences, Telephone: 757541.

DIPLOMA IN MEDICAL LABORATORY SCIENCES

College Code:	WAML
Duration:	Two-year block-release of twelve weeks duration in each year.
Description of Course:	A course for students of Medical Laboratory Sciences who have obtained the Certificate in Medical Laboratory Sciences and who are employed in approved medical or veterinary laboratories.

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- Entrance Requirements:** The Certificate in Medical Laboratory Sciences or equivalent.
- Application Procedure:** Applicants should apply on the standard DIT application form to:
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.
- Closing Date:** 31st August.
- Course of Study:** Students will study all core subjects and select one specialist option.
- Core Subjects:**
Chemistry, Biochemistry, Physiology, Physics, Management Studies.
- Specialist Subjects:**
Microbiology, Histopathology, Haemathology and Blood Transfusion, Clinical Chemistry.
- Further Study:** The Diploma is a requirement for entry to the Fellowship Course of the Institute of Medical Laboratory Sciences.
- Award:** Students are examined at the end of both years 1 and 2 in all the core subjects and in their chosen specialist subjects.
- Graduates of this course are eligible for the following award:—
- Diploma in Medical Laboratory Sciences** (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.
- This Diploma is recognised by the Institute of Medical Laboratory Sciences (London) for the award of Associateship of the Institute (A.I.M.'S.).
- For Further Information:** Mr. L. Lawlor,
Assistant Head,
Department of Biological Sciences,
Telephone 757541 ext. 215
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DIPLOMA IN BAKERY PRODUCTION AND MANAGEMENT

College Code: WBT.

Duration: Three years wholetime.

Description of Course: This course is designed to meet the needs of students who wish to attain supervisory status or a position of responsibility in a bakery business where an understanding of the scientific principles involved, coupled with wide knowledge of the bakery industry is essential.

The course offers an opportunity to both large and small bakery owners to have students trained in this country in all aspects of Bakery Production and Organisation.

The course covers the technology of baking together with practice in all aspects of modern Bakery Production. The sources, handling, storage and control of all raw materials coupled with an extensive programme of raw materials testing are also studied as well as Hygiene and Microbiology, Bakery Equipment, Machine and Modern Plant and Production Systems are also standard. The financial side of operating a bakery business, including the study of Financial Control, Stock and Quality Controls, Business Administration, Production Planning and Human Relations are all covered in the course.

Final year students are encouraged to sit for the City and Guilds of London Institute Full Technological Certificate Examination in addition to the Dublin Institute of Technology Diploma Examinations.

Entrance Requirements: Irish Leaving Certificate in five subjects including Mathematics and English at either level and a minimum of six months practical experience in a bakery, or City and Guilds Advanced Craft Certificate (No. 120 Part 2)

or

Such qualification as the College may deem equivalent.

Students holding craft certificates will be exempted from the practical bakery instruction portion of the course, and will be eligible to apply for a reduction of the course fee.

Application Procedure: Applicants should apply on the standard DIT Application Form to:
The Admissions Office,
Dublin Institute of Technology,
14 Upper Mount Street,
Dublin 2.

Closing Date:	1st February.
Course of Study:	<p>First Year: Applied Science, Bakery Technology, Industrial Studies, Bread Production (Methods and Techniques), Flour Confectionery (Methods and Techniques).</p> <p>Second Year: Applied Science, Bakery Technology, Industrial Studies, Bread Production (Methods and Techniques), Flour Confectionery (Production Methods and Techniques).</p> <p>Third Year: Applied Science, Bakery Technology, Microbiology and Hygiene, Business Administration and Financial Control, Bread Production (Methods and Techniques), Flour Confectionery (Production Methods and Techniques), Raw Materials Testing, Production Planning and Human Relations.</p>
Awards:	<p>Graduates of this course are eligible for the following award:—</p> <p>Diploma in Bakery Production and Management (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.</p>
Career Opportunities:	Graduates of the course are to be found in every facet of the bakery and allied industries and include Bakery Managers, Production Managers, Technical Representatives, Test Bakers, Bakery Technologists, Product Development Technicians and Bakery Supervisors.
For Further Information:	Mr. D. T. Carey, Baker Section, Telephone 757541 ext. 234.

CERTIFICATE IN OPTICAL DISPENSING

College Code:	WSTO.
Duration:	Two years wholetime followed by a period of three months supervised practice before the final examination.
Description of Course:	This is a course leading to a Certificate in Optical Dispensing and providing the education and training required for entrants to the profession required by the Opticians Act, 1956 and the Rules made thereunder. The course is approved by Bord na Radharcmhastoiri (the Opticians Board) which is the Registration Authority set up under the Act. Holders of the Certificate must also satisfy the Council of the Association of Ophthalmic Opticians, Ireland as to their competence in practice in order to be eligible for Registration.

Entrance Requirements:	<p>(a) Irish Leaving Certificate in five subjects which must include Mathematics and English at either level</p> <p>or</p> <p>(b) Students holding the Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or</p> <p>a Science subject will satisfy the entrance requirements for courses in DIT which specify a passing the Leaving Certificate Examination as the requirement. Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examination of the Department of Education will be an acceptable equivalent.</p> <p>or</p> <p>(c) Attainment which the College regards as equivalent to those specified in (a) or (b) will be acceptable.</p> <p>It must be emphasised that the above are the minimum entry requirements for the course.</p>
Application Procedure:	<p>Applicants should apply on the standard DIT Application Form to: The Admissions Office, Dublin Institute of Technology, 14 Upper Mount Street, Dublin 2.</p>
Closing Date:	1st February.
Course of Study:	<p>First Year: Experimental Physics, Mathematics, Chemistry, Biology, Drawing, Management and Related Studies, German.</p> <p>Second Year: Anatomy & Psysiology, Physical and Geometric Optics, Optical Dispensing, Visual Optics and Instruments, Ophthalmic Practice, Contact Lenses, Law & Ethics and Management and Related Studies, Supervised Clinical Practice.</p>
Award:	<p>Graduates of this course are eligible for the following award:—</p> <p>Certificate in Optical Dispensing (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.</p>
Career Opportunities:	The main area of employment for graduates of this course is in dispensing chemists and dispensing opticians establishments.
For Further Information:	Mr. K. P. Culliton, Assistant Head, Department of Physics, Telephone 757541 ext. 235

TECHNICIAN ENGINEERING DIPLOMA – ELECTRICAL/ ENGINEERING

College Code: WEET.

Duration: Three years wholetime.

Description of Course: In the final two years of the course students may specialise in Electrical Power, or Control and Instrumentation which includes microprocessor applications. The course has been approved by the Institute of Engineers of Ireland and holders of the Diploma are eligible for election to the grade of Affiliate. They are also granted exemption from Part 1 of the Engineering Council Examination, (previously the C.E.I. Examination). Students who obtain a grade of Distinction in the Diploma examination are eligible to apply for entry into the third year of the Honours Diploma Course in Electrical/Electronic Engineering (Ref. SEE)

Entrance Requirements: (a) Irish Leaving Certificate in five subjects with Grade B or higher in ordinary level Mathematics. Subjects must also include English at either level.

or

(b) Students holding the Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or a Science Subject will satisfy the entrance requirements for courses in DIT which specify a pass in the Leaving Certificate Examinations 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.

or

(c) Such qualification as the College may deem equivalent.

Note: It must be emphasised that the above are the minimum entry requirements for the course. Because of the large numbers seeking entry a much higher standard is necessary in practice to gain a place.

Application Procedure: Applicants should apply on the standard DIT Application Form to:
The Admissions Office,
Dublin Institute of Technology,
14 Upper Mount Street,
Dublin 2.

Closing Date: 1st February.

Course of Study:	<p>Year I: Mathematics, Applied Mechanics, Physics, Engineering, Drawing, Mechanical Workshop, Principles of Electricity, Electronics, Electrical Power, Economics, Technical French or Technical German.</p> <p>Year II: Electrical Power Option Mathematics, Materials, Hydraulics, Thermodynamics, Field and Circuit Theory, Electronics, Electrical Measurement and Instrumentation, Electrical Power, Economics, Technical French or Technical German.</p> <p>Year III: Mathematics, Circuit Theory, Electronics, Control Systems, Electrical Power, Project, Economics, Technical French or Technical German.</p> <p>Year II: Control and Instrumentation Option Mathematics, Materials, Hydraulics, Thermodynamics, Field and Circuit Theory, Electronics, Electrical Measurements, Control and Instrumentation, Economics, Technical French or Technical German.</p> <p>Year III: Mathematics, Circuit Theory, Electronics, Control Systems, Microprocessors in Instrumentation and Control, Economics, Technical French or Technical German.</p>
Awards:	<p>Graduates of this course are eligible for the following award:—</p> <p>Technician Engineering Diploma – Electrical Engineering (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.</p>
Career Opportunities:	As this is a broadly based course graduates take up employment in a wide range of activities such as Electrical Supply, Instrumentation and Control, Computing and Consulting.
For Further Information:	Mr. J. J. Farrell, Assistant Head, Department of Electrical Engineering, Telephone: 757541 ext. 261.

TECHNICIAN DIPLOMA IN ELECTRONIC ENGINEERING

College Code:	WRS.
Duration:	Three years wholetime.

Description of Course:	<p>The theoretical and practical content of this 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.</p> <p>The subjects covered on the course include Mathematics, Engineering Sciences, Analogue and Digital Electronics, Communications Engineering and Computer Systems, but Measurements, Measuring Methods and Instruments form the unifying core for the different areas of study.</p>
Entry Requirements:	<p>(a) Irish Leaving Certificate in five subjects with grade C or higher in ordinary level Mathematics. Subjects must also include English at either level.</p> <p>or</p> <p>(b) Students holding the Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or a Science Subject will satisfy the entrance requirements for courses in DIT 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.</p> <p>or</p> <p>(c) Such qualification as the College may deem equivalent.</p> <p><i>Note:</i> It must be emphasised that the above are minimum entry requirements for the course. Because of the large numbers seeking entry a much higher standard is necessary in practice to gain a place.</p>
Application Procedure:	<p>Applications should apply on the standard DIT Application Form to: The Admissions Office, Dublin Institute of Technology, 14 Upper Mount Street, Dublin 2.</p>
Closing Date:	<p>1st February.</p>
Course of Study:	<p>First Year: Mathematics, Mechanics, Physics, Electricity, Electronics, Computer Programming, Electrical Draughting, Mechanical Workshop Practice, Electronic Workshop Practice, Industrial Studies, Technical French or Technical German.</p>

Second Year:

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

Third Year:

Mathematics, Electric Circuit, Analogue and Digital Electronics, Microprocessor Systems, Communications Engineering, Industrial Studies, Technical French or Technical German.

Awards: Graduates of this course are eligible for the following award:—

Technician Diploma in Electronic Engineering (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

Career Opportunities: Because of the breadth of coverage provided, career opportunities for the Technician graduate are correspondingly wide, covering the whole electronics production industry, radio and television broadcasting, computer manufacture and maintenance, medical electronic equipment, communications and navigation systems etc.

For Further Information: Mr. C. Cowley, Assistant Head,
Department of Electronic and Communications Engineering,
Telephone: 757541 ext. 240.

TECHNICIAN CERTIFICATE IN ELECTRONICS

College Code: WRCE.

Duration: Two years wholetime.

Description of Course: This is a broadly based course avoiding any narrow specialisation but with an approach which emphasises the practical/applied aspects of the subjects and utilises a less demanding level of analysis.

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.

Entry Requirements: (a) Irish Leaving Certificate in five subjects which must include Mathematics and English at either level.

or

(b) Students holding the Senior Trade Certificate of the Department of

Education with one endorsement in Mathematics or a Science Subject will satisfy the entrance requirements for courses in DIT 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.

or

(c) Such qualification as the College may deem equivalent.

Note: It must be emphasised that the above are minimum entry requirements for the course. Because of the large numbers seeking entry a higher standard is necessary in practice to gain a place.

Application Procedure:

Applicants should apply on the standard DIT Application Form to:
The Admissions Office,
Dublin Institute of Technology,
14 Upper Mount Street,
Dublin 2.

Closing Date:

1st February.

Course of Study:

First Year:
Mathematics, Engineering Science, Electricity, Electronics Workshop, Analogue and Digital Electronics, Electrical Draughting, Workshop Practice, Communication Systems, Computer Programming.

Second Year:
Mathematics, Electricity, Circuit Theory, Digital and Analogue Electronics, Communication Principles, Computer Systems, Computer Programming.

Awards:

Graduates of this course are eligible for the following award:—

Technician Certificate in Electronics (Dublin Institute of Technology) with grades Pass, Credit or Distinction as appropriate.

Career Opportunities:

Graduates of this course are qualified to take up employment across the spectrum of the electronics, communications and computer industry in the production, service and applications sectors.

For Further Information:

Mr. C. Cowley,
Assistant Head,
Department of Electronic and Communications Engineering,
Telephone: 757541 ext. 240.

TECHNICIAN ENGINEERING DIPLOMA – TELECOMMUNICATIONS & ELECTRONICS

College Code: WRTT.

Duration: Three years wholetime.

Description of Course: This course is designed to provide a broad and thorough education for students intending to pursue careers as technician engineers in telecommunications and electronics.

This course has a strong analytical content, the overall emphasis is applied, and is design oriented.

Graduates are granted exemption from Part 1 of the Engineering Council Examination (previously the Council of Engineering Institutions Examination). Students, who obtain a grade of distinction in the Diploma examinations are eligible to apply for entry into the third year of the Honours Diploma Course in Electrical/Electronic Engineering (Ref. SEE).



Entry Requirements: (a) Irish Leaving Certificate in five subjects with grade B or hither in ordinary level Mathematics. Subjects must also include English at either level.

or

(b) Students holding the Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or a Science Subject will satisfy the entrance requirements for courses in DIT 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.

or

(c) Such qualification as the College may deem equivalent.

Note: It must be emphasised that the above are minimum entry requirements for the course. Because of the large numbers seeking entry a much higher standard is necessary in practice to gain a place.

Application Procedure: Applicants should apply on the standard DIT Application Form to:
The Admissions Office,
Dublin Institute of Technology,
14 Upper Mount Street,
Dublin 2.

Closing Date: 1st February.

Course of Study: **First Year:**
Mathematics, Mechanics, Physics, Materials and Processes, Electricity, Electronics, Computer Programming, Engineering Drawing, Mechanical Workshop Practice, Electronic Workshop Practice, Industrial Studies, Technical French or Technical German.

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

Third Year:
Mathematics, Physics, Circuit Theory, Analogue and Digital Electronics, Microprocessor Systems, Communications Engineering, Computer Programming, Industrial Studies, Technical French or Technical German.

Awards: Graduates of this course are eligible for the following award:—

Technician Engineering Diploma — Telecommunications & Electronics
(Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

Career Opportunities: Graduates have career opportunities over the full extent of the electronics, telecommunications and computer industry in a very wide range of positions.

For Further Information: Mr. C. Cowley,
Assistant Head,
Department of Electronic and Communications Engineering,
Telephone: 757541 ext. 240.

PART-TIME AND EVENING TECHNICIAN COURSES

TECHNICIAN CERTIFICATE IN APPLIED SCIENCE

College Code: PAS.

Duration: Four years part-time.

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

- (a) Research and development in industrial laboratories.
- (b) Scientific and Industrial Instrument manufacturing industries.
- (c) The food processing Industries.
- (d) Educational Laboratories.
- (e) High technology Industries.

After the first two years this course offers two options:—

Applied Biology and Applied Chemistry.

An important element in the final year of the project, which is an applied laboratory based problem in the major field of study.

Entrance Requirements: (a) Pass in English, Pass in Mathematics (or Applied Mathematics), Pass in three other subjects in the Leaving Certificate examination.

or

(b) Students holding the Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or

a Science subject will satisfy the entrance requirements for courses in DIT 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 Examination of the Department of Education will be an acceptable equivalent.

or

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

Class Attendance Requirements: 1 day and 2 evenings per week (15 hours).

Application Procedure:	Applicants should apply on the standard DIT Application Form to: The Registration Section, College of Technology, Kevin Street, Dublin 8.
Closing Date:	23rd September.
Course of Study:	First and Second Years: Physics, Chemistry, Biology, Mathematics, Industrial Studies, Drawing Assignments, Technical French or Technical German. Third and Fourth Years: Industrial Studies, Technical French or Technical German are common to all options. Subjects taken in Years 3 and 4 are detailed below in respect of each option available. Applied Biology Option: Biochemistry, Microbiology, Biotechnology, Cell Biology, Mathematics (including Computer Studies), Language, Business Studies, Quality Control and Workshop Practice. Applied Chemistry Option: Physical Chemistry, Inorganic Chemistry, Organic Chemistry and Industrial Chemistry.
Award:	It is envisaged that graduates of this course will be eligible for the following award:— Technician Certificate in Applied Science (Option Specified) (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.
For Further Information:	Dr. Marie Keating, Department of Chemistry, Telephone: 757541 ext. 324.

TECHNICIAN DIPLOMA IN APPLIED SCIENCE

College Code	PAS 5 and 6.
Duration:	Two years part-time.
Description of Course:	This course is designed to meet the requirements of those students who hold a Technician Certificate in Applied Science and who seek further training as technicians for:—

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- (a) Research and development in industrial laboratories.
 - (b) Scientific and Industrial Instrument manufacturing industries.
 - (c) The food processing Industries.
 - (d) Educational Laboratories.
 - (e) High technology Industries.

This course offers two options:—

Applied Biology and Applied Chemistry

An important element in the final year of the project, which is an applied laboratory based problem in the major field of study.

Entrance Requirements:

- (a) Technician Certificate in Applied Science with Credit or Distinction.
- (b) Technician Certificate in Applied Science with Pass and suitable work experience.
- (c) A qualification which the College considers to be equivalent to (a) or (b).

Application Procedure:

Applicants should apply on the standard DIT Application Form to:
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date:

23rd September.

Course of Study:

Both Years:
Industrial Studies and Technical French or Technical German are common to each option.

Applied Chemistry Option:

Physical Chemistry, Inorganic Chemistry, Organic Chemistry, Analytical Chemistry, Industrial Chemistry.

Applied Biology Option:

Biochemistry, Microbiology, Biotechnology, Cell Biology, Project Business Studies, Food Science (including Instrumentation) *or* Biomedical Science (Haematology and Histology).

Award:

It is envisaged that graduates of this course will be eligible for the following award:—

Technician Diploma in Applied Science (Option Specified)
(Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

Career Opportunities: Applied aspects of the sciences are the major theme in the options. Consequently career opportunities offer to the graduates in a wide range of production and service industries, such as the hospitals, higher education, chemicals and pharmaceuticals, computers, food industry and others. The graduates of this course answer the need for greater technical literacy and competence in virtually all kinds of industry, where technological change is the order of the day.

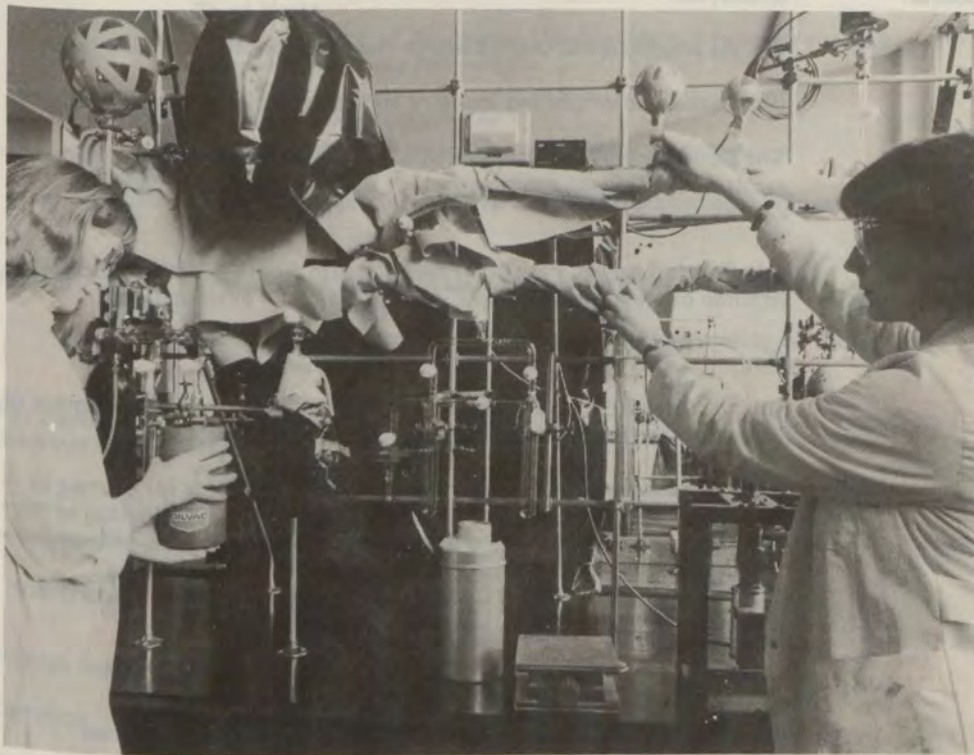
For Further Information: Dr. Marie Keating,
Department of Chemistry,
Telephone: 757541 ext. 324.

SCIENCE LABORATORY TECHNICIANS' DIPLOMA

- College Code:** PSL 4 and 5.
- Duration:** 2 years part-time (one day and two evenings per week).
- Description:** This part-time course is designed to cater for persons in full-time employment in suitable laboratories. Suitable laboratories include University research and teaching laboratories, those run by the Institute for Industrial Research and Standards and other Semi-State bodies and industrial research, development and quality control laboratories.
- Entry Requirements:** Science Laboratory Technicians' Certificate from the Dublin Institute of Technology or equivalent qualification.
- Application Procedure:** Application should be made on the standard DIT Application Form to:
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.
- Closing Date:** 23rd September.
- Course of Study:** This consists of two years of study after the Certificate and leads to the award of a Science Laboratory Technicians' Diploma. It is designed to extend the knowledge of Certificate holders to a considerable depth in their chosen field of specialisation. The emphasis during this stage of the course is on understanding the theoretical and quantitative aspects of laboratory practice.
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Award: Graduates of the course are eligible for the award of:—
Science Laboratory Technicians' Diploma from the Dublin Institute of Technology.

For Further Information: Dr. Marie Keating,
Department of Chemistry,
Telephone 757541 ext. 324



TECHNICIAN DIPLOMA IN DENTAL TECHNOLOGY

College Code: PSDT.

Description of 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.

PHOTOGRAPHIC TECHNICIANS' CERTIFICATE

College Code: PSPT.

Duration: Three years part-time.

Description of Course: 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 Dublin Institute of Technology is awarded on the result of the College examinations at the end of the third year of the course.

Entrance Requirements: (a) Pass in English, Pass in Mathematics (in Applied Mathematics), Pass in three other subjects in the Leaving Certificate examination.

or

(b) Students holding the Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or

a Science subject will satisfy the entrance requirements for courses in DIT 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.

or

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

Application Procedure: Applicants should apply on the standard DIT application form to:
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.

Class Attendance Requirements: One day and three evenings per week for three years.

Course of Study:	<p>First Year: General Photographic Theory, Mathematics, Physics, Chemistry, Industrial Studies, Graphic Design.</p> <p>Second Year: General Photographic Theory, Physics, Chemistry, Industrial Studies, Engineering Practice, Graphic Design.</p> <p>Third Year: In the third year of the course, the student will follow a specialised course in one of the following:—</p> <p>(a) Applied Photography or (b) Photofinishing and Colour Laboratory Practice.</p> <p>and continue studies in Physics, Industrial Studies, Engineering Practice.</p>
Award:	<p>Graduates of this course are eligible for the following award:—</p> <p>Photographic Technician Certificate (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.</p>
For Further Information:	<p>Mr. S. Coonan, Department of Physics, Telephone: 757541.</p>

ELECTRICAL TECHNICIANS' CERTIFICATE

College Code:	PET.
Duration:	Four years part-time.
Attendance Requirements:	One full day and three evenings per week during the first three years: four evenings per week during the final year.
Entrance Requirements:	<p>(a) Students must be employed in the Electrical Engineering field and</p> <p>(b) must have a Pass in English, Pass in Mathematics (or Applied Mathematics) and a Pass in three other subjects in the Leaving Certificate examination.</p> <p>• or</p> <p>(c) Students holding the Senior Trade Certificate of the Department of</p>

Education with one endorsement in Mathematics or

a Science subject will satisfy the entrance requirements for courses in the DIT 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.

or

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

- Course Content:** The technological subjects include Generation and Transmission, Utilization, Control and Instrumentation, Applied Electronics, Circuit Theory. The course also includes Mathematics, Physics and English.
- Application Procedure:** Applicants should apply on the standard DIT application form to: The Registration Section, College of Technology, Kevin Street, Dublin 8.
- Closing Date:** 23rd September.
- 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.
- Award:** Graduates of this course are eligible for the following award:—
Electrical Technicians' Certificate (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.
- For Further Information:** Mr. J. Farrell, Assistant Head, Department of Electrical Engineering, Telephone: 757541.

TECHNICIAN CERTIFICATE IN MEDICAL PHYSICS AND PHYSIOLOGICAL MEASUREMENT

- College Code:** PBE.
- Duration:** Three years (three evenings per week).
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Description of Course:	This is a course for those who work in Medical Physics, or are engaged in various aspects of physiological measurement or bioengineering. 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.
Entrance Requirements:	<p>(a) Pass in English, Pass in Mathematics (or Applied Mathematics), Pass in three other subjects in the Leaving Certificate examination.</p> <p>or</p> <p>(b) Students holding the Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or</p> <p>a Science subject will satisfy the entrance requirements for courses in DIT 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..</p> <p>or</p> <p>(c) Attainment which the College regards as equivalent to those specified in (a) or (b) will be acceptable.</p>
Application Procedure:	Applicants should apply on the standard DIT application form to: The Registration Section, College of Technology, Kevin Street, Dublin 8.
Closing Date:	23rd September.
Course of Study:	<p>First Year: Physics, Chemistry and Biology, Introduction to Electricity, Physiology and Data Presentation.</p> <p>Second Year: Electricity and Electrical Measurement, Human Physiology and Biochemistry, Radiation Physics, Physical Principles of Instrumentation and Data Interpretation.</p> <p>Third Year: Physiology, Physiological Measurement Techniques, Biophysics, Bio-engineering Techniques, Radioisotopes Techniques, Computation Techniques.</p>

Award: Graduates of this course are eligible for the following award:—

Technician Certificate in Medical Physics and Physiological Measurement (Dublin Institute of Technology)
with grades of Pass, Credit or Distinction as appropriate.

For Further Information: Dr. M. Hussey,
Head,
Department of Physics,
Telephone: 757541.

OTHER SCIENCE BASED COURSES

CERTIFICATE IN PROFESSIONAL PHOTOGRAPHY

College Code: PSP.

Duration: Three years part-time.

Description of Course: This is a part-time course in Professional Photography with admission restricted to students already employed professionally as assistant or trainee photographers.

Entrance Requirements: (a) Pass in English, Pass in Mathematics (or Applied Mathematics), Pass in three other subjects in the Leaving Certificate examination.

or

(b) Students holding the Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or

a Science subject will satisfy the entrance requirements for courses in DIT 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 Examination of the Department of Education will be an acceptable equivalent.

or

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

Application Procedure: Applicants should apply on the standard DIT application form to:
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.

Class Attendance Requirements: One day and three evenings per week for three years.

Course of Study: **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.

The final examination for the Dublin Institute of Technology 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.

Award: Graduates of this course are eligible for the following award:—

Certificate in Professional Photography (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

For Further Information: Mr. S. Coonan,
Department of Physics,
Telephone: 757541.

ADVANCED CERTIFICATE IN PROFESSIONAL PHOTOGRAPHY

College Code: PSP 4 and 5.

Duration: Two years part-time.

Description of Course: The Advanced Certificate Course in Professional Photography is intended for the student who has obtained the 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.

Entrance Requirements: (1) DIT Certificate in Professional Photography.
or
(2) An Award which the College considers an equivalent of (1).

Class Attendance One half day and three evenings per week for two years.

Requirements:

Course of Study: **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.

Award: Graduates of this course are eligible for the following award:—

Advanced Certificate in Professional Photography (Dublin Institute of
Technology) with grades of Pass, Credit or Distinction as appropriate.

For Further Information: Mr. D. H. Davison,
Department of Physics,
Telephone: 757541.

CERTIFICATE IN SCIENCES FOR NURSES

College Code: PSN.

Duration: Two years part-time block-release.

Description of Course: 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.

Entrance Requirements: 1. As required by the Nursing Schools participating but not less than
(a) Pass in English, Pass in Mathematics (or Applied Mathematics),
Pass in three other subjects in the Leaving Certificate examination.

or

(b) Students holding the Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or

a Science subject will satisfy the entrance requirements for courses in DIT 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.

or

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

2. 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.

Application Procedure: The standard DIT application form should be completed by each student. Application will then be made on behalf of the applicants by the Nursing School in which they are registered.

Class Attendance Requirements: Three years with a block release in each year.

Course of Study: **First Year:**
Physics, Chemistry, Psychology and Law.

Second Year:
Biophysics, Biochemistry, Psychology and Law.

Third Year:
Biophysics, Biochemistry, Psychology and Law.

Award: Graduates of this course are eligible for the following award:—
Certificate in Sciences for Nurses (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

For Further Information: Mr. K. P. Maher,
Department of Physics,
Telephone: 757541.

COURSE IN PLASTICS

College Code: PCP.

Duration: 1 year part-time.

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

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

Qualifications for Admission: (a) Pass in English, Pass in Maths (or Applied Maths), Pass in three other subjects in the Leaving Certificate examination.

or

(b) Students holding the Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or

a Science subject will satisfy the entrance requirements for courses in DIT 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.

or

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

Application Procedure: Application should be made on the standard DIT application form to:—
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.

For Further Information: Dr. Noel Russell, Assistant Head,
Department of Chemistry,
Telephone: 757541 ext. 220.

COURSE FOR THE ASSOCIATESHIP OF THE INSTITUTE OF BREWING

College Code: PBA.

Duration: 2 years part-time.

Description of Course: 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.

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- Qualifications for Admission:** (a) Pass in English, Pass in Maths (or Applied Maths), Pass in three other subjects in the Leaving Certificate examination.
- or
- (b) Students holding the Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or
- a Science subject will satisfy the entrance requirements for courses in DIT 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.
- or
- (c) Attainment which the College regards as equivalent to those specified in (a) or (b) will be acceptable.

Application Procedure: Application should be made on the standard application form to:—
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.

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.

For Further Information: Mr. John McEvoy,
Department of Biological Sciences,
Telephone: 757541 ext. 314.

COURSE FOR REGISTERED NURSING AUXILIARIES OF THE ROYAL COLLEGE OF VETERINARY SURGEONS

- College Code:** S9.
- Duration:** Two years: two evenings per week.
- Description of Course:** This part-time course is designed to meet the needs of students who are employed in approved veterinary clinics and wish to study for the examinations for Registered Nursing Auxiliaries of the Royal College of Veterinary Surgeons.
- Entrance Requirements:** Irish Leaving Certificate in five subjects including Mathematics and English or equivalent
and
employment in an approved veterinary clinic.
- Application Procedure:** Application should be made on the standard application form to:—
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.
- Closing Date:** 23rd September.
- Course of Study:**
Year 1:
Anatomy and Physiology, First Aid, Theory and Practice of Nursing including Dietetics, Management, Hygiene and Feeding.
Year 2:
Diagnostic Aids, Medical and Surgical Nursing, Radiography, Obstetrical and Paediatric Nursing.
- Awards:** At the end of Year 1 students sit Part I of the Registration examination for Registered Nursing Auxiliaries of the Royal College of Veterinary Surgeons. At the end of Year 2 they may complete Part II of this examination thus qualifying as Registered Animal Nursing Auxiliaries (R.A.N.A.).
- For Further Information:** Miss B. A. Ryan, Head,
Department of Biological Sciences,
Telephone: 757541.
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COURSE FOR THE INSTITUTE OF MEAT

College Code: S11.

Duration: 2 years evenings.

Description of Course: 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.

Entry Requirements: (a) Pass in English, Pass in Maths (or Applied Maths), Pass in three other subjects in the Leaving Certificate examination.

or

(b) Students holding the Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or

a Science subject will satisfy the entrance requirements for courses in DIT 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 in the Elementary Technological Certificate Examinations of the Department of Education will be an acceptable equivalent.

or

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

Application Procedure: Application should be made on the standard DIT application form to:—
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.

For Further Information: Mr. John McEvoy,
Department of Biological Sciences,
Telephone: 757541 ext. 314.

COURSE IN MEDICAL RECORDS ADMINISTRATION

College Code: S12.

Duration: One year: two evenings per week.

Description of Course: This one year course has two primary aims:—
(i) To provide a basic training in Medical Records Administration and
(ii) To prepare students for the certificate examination of the Institute of Hospital and Health Service Administrators.

The course is specifically aimed at and intended to meet the needs of clerical and secretarial staff working in medical records, medical secretarial, admissions, out-patients, radiology, pathology and other medical support departments.

Entrance Requirements Academic attainment as stated and in addition students must register with the Institute of Hospital and Health Service Administrators presenting themselves for enrolment on the course.

To become a registered student, a person is required to:—

(a) Be employed in a hospital or branch of the health service or in a health agency.

(b) Have passed the leaving certificate examination or its equivalent in at least five subjects including English and Mathematics. Applications will be considered from mature students.

(c) Apply to the Institute on the prescribed form accompanied by the appropriate registration fee.

Application forms for registration may be obtained from:—
The Director of Education,
Institute of Hospital and Health Service Administrators,
c/o Hume Street Hospital,
Dublin 2.
Telephone: 766935 (mornings only).

Application Procedure: Applicants should apply on the standard DIT application form to:—
Registration Sectio,
Dublin Institute of Technology,
Kevin Street,
Dublin 8.

Closing Date: Enrolment and first class meeting 17th September, Room 304.

Course of Study:	Lectures are held on two evenings per week — Tuesday and Thursday, from 6.00 p.m. to 9.00 p.m. and cover the following subjects: Patient Administration. Patient Records. Medical Terminology, Anatomy and Physiology. Principles of Organisation and Management. Social & Public Administration. Communications.
Further Study:	Students who pass the certificate examination on completion of this course and who wish to pursue the Diploma of the Institute in Hospital and Health Service Administration may be granted exemption in the following subjects: Medical Records. Principles of Organisation & Management. Social & Public Administration.
Award:	Students must sit the Certificate Examination of the Institute of Hospital and Health Service Administration at the end of the course. Only registered students of that Institute who comply with its regulations are eligible to sit for the Certificate Examination.
For Further Information:	Mr. L. Lawlor, Assistant Head, Department of Biological Sciences, Telephone: 757541 ext. 215.

COURSE IN MATHEMATICS FOR ENGINEERING PRACTICE AND TRADES

College Code:	M1:
Duration:	4 years: one evening (two hours) per week.
Application Procedure:	Applicants should apply on the standard DIT application form to:— The Registration Section, College of Technology, Kevin Street, Dublin 8.
Closing Date:	23rd September.
Course of Study:	A wide-ranging course in Practical Mathematics.

Award: 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.

For Further Information: Dr. T. Ambrose, Assistant Head,
Department of Mathematics, Statistics and Computer Science,
Telephone: 757541 ext. 221.

COURSE IN MATHEMATICS FOR TELECOMMUNICATIONS

College Code: M2.

Duration: 4 years: evenings.



Class Attendance Requirements: Four years: one evening per week (1½ hours per week for the first two years; 2½ hours per week in the third and fourth years).

Application Procedure: Applicants should apply on the standard DIT application form to:—
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.

Course of Study: A range of mathematical topics appropriate to the Telecommunications Technician Course of the City and Guilds of London Institute.

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

For Further Information: Dr. T. Ambrose, Assistant Head,
Department of Mathematics, Statistics and Computer Science,
Telephone: 757541 ext. 221.

COURSE IN MATHEMATICS FOR ENGINEERING

College Code: M3.

Duration: 4 years: evenings.

Class Attendance Requirements: Four years: One evening per week (1½ hours in the first and third years; 3 hours in the second and fourth years).

Application Procedure: Applicants should apply on the standard DIT application form to:
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.

Course of Study: A range of mathematical topics appropriate to the Advanced Technological and Higher Technological Certificate courses of the Department of Education.

Award: 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.

For Further Information: Dr. T. Ambrose, Assistant Head,
Department of Mathematics, Statistics and Computer Science,
Telephone: 757541 ext. 221.

CERTIFICATE IN MATHEMATICS AND ITS APPLICATIONS

College Code: M4.

Duration: Three years: evenings.

Description of Course: A course designed to cover Mathematics with a minimum of Grade B on a lower level paper in Leaving Certificate or such other qualifications as the College may deem equivalent.

Class Attendance Requirements: Three years: one evening (3 hours) per week in first year and two evenings (6 hours) per week in subsequent years.

Application Procedure: Applicants should apply on the standard DIT application form to:—
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.

Course of Study: **First Year:**
The first year is a preliminary course provided for candidates who may wish to brush up their knowledge. No formal examination is provided.

Second Year:
The course consists of two topics:
(i) Mathematical Methods and Analysis;
(ii) Computer Science and Programming.

Third Year:
The course consists of two topics:
(i) Mathematical Methods and Analysis;
(ii) Algebra.

Awards: College examinations will be set in the Autumn and candidates will normally sit examinations at the end of each year.

The course is so designed that it is hoped that successful candidates may be eligible for the Licentiatehip of the Institute of Mathematics and its Applications. The content should be particularly useful to teachers of Mathematics at second-level.

For Further Information: Dr. T. A. Ambrose, Assistant Head,
Department of Mathematics, Statistics and Computer Science,
Telephone: 757541 ext. 221.

COURSE IN COBOL PROGRAMMING

College Code: M9.

Duration: One year: one evening per week.

Entry Requirements: This is a one year course providing an introduction to Cobol programming for candidates who have already some experience programming in another language. No formal examination or qualification is provided.

Application Procedure: Applicants should apply on the standard DIT application form to:—
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.

For Further Information: Dr. B. O'Shea, Assistant Head,
Department of Mathematics, Statistics and Computer Science,
Telephone: 757541 ext. 221.

PART-TIME AND EVENING BAKERY COURSES

COURSE IN BAKERY PRACTICE

- College Code:** PSB.
- Duration:** 4 years part-time.
- Description:
of Course:** A part-time course in Breadmaking and Flour Confectionery for Bakery Apprentices.
- Entry
Requirements:** 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.
- Class Attendance
Requirements:** One day and one evening per week for four years.
- Application
Procedure:** Applicants should apply on a standard DIT application form to:—
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.
- Closing Date:** 23rd September.
- Course of
Study:** A Course of Study in Bakery practice, Bakery Technology, Raw Materials, Bakery Science and English is given over the four years of the Course.
- Awards:** Internal examinations are set by the College. Students may also sit examinations of the City and Guilds of London Institute. Students who pass the London City and Guilds Certificate No. 120 with credit are eligible to apply for a place on the Wholetime Diploma Course in Bakery Production and Management.
- For Further
Information:** Mr. Daniel T. Carey,
Bakery Section,
Telephone: 757541.

COURSE IN CONFECTIONERY DECORATION

College Code: B1.2 and B1.3.

Duration: 2 years: one evening per week.

Description: A part-time evening course in cake design, icing and piping.

Entry Requirements: Students must be qualified Bakers or Confectioners, employed in the Bakery Trade.

Application Procedure: Applicants should apply on a standard DIT application form to:—
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.



Course of Study: **1st Year: (Intermediate Course)**
Practice in icing and piping of simple designs.

2nd Year: (Advanced Course)
Advanced icing, piping and figure piping. Advanced design work, Run Out Work, Modelling.

Awards: No formal examinations are provided but students may enter the London City and Guilds No. 121 examinations.

For Further Information: Mr. Daniel T. Carey,
Bakery Section,
Telephone: 757541.

OTHER ELECTRICAL, ELECTRONIC OR TELECOMMUNICATIONS ENGINEERING BASED COURSES

ELECTRICAL & ELECTRONIC DRAUGHTING

College Code: ESED.

This is a training course to prepare students for employment in drawing offices of consulting engineers and industrial concerns.

Duration: The course is of one year's duration. Participants attend the College for 35 hours per week over a period of 36 weeks starting in late September.

Content: Electrical Draughting, Technical Drawing, Electrical Science, Electrical Installation Theory, Project Work.

Application Procedure: This course is organised under the Special Training Programme of the European Social Fund. Applications for places on this course are invited in July-August by advertisements placed in the national daily papers.

The places on the course are then normally allocated to qualified applicants on the basis of a series of aptitude/suitability tests and interview held in September.

For Further Information: Mr. J. O'Donnell, Assistant Head,
Department of Electrical Installation,
Telephone: 757541.

TELECOMMUNICATION & ELECTRONIC TECHNICIANS' COURSE

College Code: WRAL.

Duration: Two years wholetime.

Description of Course: This course is 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.

Entry Requirement: Applicants must be employed as trainee technicians in the electronics industry.

Examinations: Students are required to take the following examinations of the City & Guilds of London Institute at the end of the first year.

Mathematics T1, Physical Science T1, Telecommunications Systems T1 and Communication Studies T1 together with Mathematics T2, Electrical Principles T2, Electronics T2 and Radio and Transmission Systems T2.

At the end of the second year students will take the following examinations of the City & Guilds of London Institute:

Part 1 T2 examination in Microelectronic Systems together with the Part 2 T3 examinations in Mathematics, Electrical Principles, Electronics, Radio and Microelectronic Systems.

Application Procedure: Applicants should apply on the standard DIT application form to:—
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.

For Further Information: Mr. B. J. O'Connor, Head,
Department of Electronic and Communications Engineering,
Telephone: 757541.

MARINE RADIO-ELECTRONIC OFFICERS COURSE

College Code: WRO.

Duration: One year wholetime.

Description: This is a course to prepare students, who have completed successfully the Certificate Course in Electronics (Ref. WRCE, page 64), for the Marine Radiocommunication General Certificate Examinations conducted by An Post. This certificate (MRGC) is required for employment as a Radio Officer in the International Mercantile Marine Service.

Entry Requirement:	Technician Certificate in Electronics, or equivalent qualification with adequate Radio Communication content.
Content:	The course includes Electricity, Analogue and Digital Electronics, Radio Communication, Communications Regulations and Procedures, Telegraphy and Telephony Practice.
Application Procedure:	Applicants should apply on the standard DIT application form to:— The Registration Section, College of Technology, Kevin Street, Dublin 8.
Closing Date:	23rd September.
For Further Information:	Mr. M. Rice, Assistant Head, Department of Electronic and Communications Engineering, Telephone: 757541.

MARINE RADAR MAINTENANCE CERTIFICATE

College Code:	WRR.
Duration:	Sixteen weeks full-time.
Description:	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.
Entry Requirements:	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.
Content:	The course provides instruction in the theory and practice of Radar, and practice in the operation and maintenance of Radar equipment.
Application Procedure:	Applicants should apply on the standard DIT application form to:— The Registration Section, College of Technology, Kevin Street, Dublin 8.

Closing Date: 23rd September.

For Further Information: Mr. M. Rice, Assistant Head,
Department of Electronic and Communications Engineering,
Telephone 757541.

ELECTRONIC SERVICING (Industrial Equipment, Television and Audio Equipment)

College Code: PRM.

Duration: Four years part-time (one day and two evenings per week — 12½ hours)

Description: 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).

Entrance Requirements: A pass in the Leaving Certificate of the Department of Education, with Mathematics and English as essential subjects.

Prospective students **MUST** be employed as trainees or apprentices in the electronics or telecommunications industry.

Content: The course subjects include Electricity, Electronics, Radio, Television, together with Mathematics and Mechanical Workshop Practice.

A systems approach is used with a strong emphasis on the practical aspects and a restricted use of analysis.

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

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

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

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

Application Procedure: Applicants should apply on the standard DIT application form to:—
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.

For Further Information: Mr. C. Cowley, Assistant Head,
Department of Electronic and Communications Engineering,
Telephone: 757541.

POST OFFICE ENGINEERING TECHNICIANS' COURSE

College Code: SRPO.

Duration: Two years block-release (three periods, each of 10 weeks duration over the two years).

Description: This course is conducted by arrangement with 'An Post' providing technical education for technician trainees. The scheme has the co-operation of the Irish Post Office Engineering Union.

Trainees from areas outside Dublin City are admitted under special fee arrangements with the Vocational Education Committee of the areas concerned.

Content: The course provides instruction in Irish, English, Mathematics, Physics, Electricity, Drawing and Electronics.

Application Procedure: Applicants should apply on the standard DIT application form to:—
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.

For Further Information: Mr. C. Cowley, Assistant Head,
Department of Electronic and Communications Engineering,
Telephone: 757541.

ELECTRONIC EQUIPMENT MAINTENANCE

College Code: R1.

Duration: Two years evenings.

Description: This course is appropriate for those who are employed in the electronics industry and who are involved in the maintenance and repair of electronic equipment.

The course is designed to provide a broad general introduction to both analogue and digital electronics, and a detailed treatment of the practical aspects of microcomputer technology.

Examinations: At the end of the second year students will be eligible to sit for the Part I of the City and Guilds of London Institute's "Microcomputer Technology" (756) certificate examinations. Internal College examinations are taken at the end of the first year.

Attendance Requirements: Attendance at the College is required on two evenings per week. In addition, students will be required to attend for an intensive practical session of one week duration towards the end of each year.

Entrance Requirements: Entry to the course is restricted to those who are currently employed in the electronics industry.

Application Procedure: Applications should be made on the standard DIT application form to: The Registration Section, College of Technology, Kevin Street, Dublin 8.

Closing Date: 23rd September, 1985.

For Further Information: Mr. C. Cowley, Assistant Head, Department of Electronic and Communications Engineering, Telephone: 757541.

TELECOMMUNICATION TECHNICIANS' COURSE (New Scheme)

College Code: R6.

Duration: Five years — evenings.

Description: 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).

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.

Entrance Requirements: Leaving Certificate (Ordinary Level) in Mathematics and English or equivalent. An entrance selection test may be set by the College.

Examinations: **Part I (T1):**
Mathematics T1, Physical Science T1, Telecommunications Systems T1, Communication Studies T1, General Studies.

Part I (T2):
Mathematics T3, Electrical Principles T3, Electronics T3, Radio T3 Transmission Systems T2 Option, Switching and Transmission Systems T2 Option, Microelectronic Systems T2 Option, General Studies.

Part II (T3):
Mathematics T3, Electrical Principles T3, Electronics T3, Radio T3 Option, Telephone Switching T3 Option, Microelectronic Systems T3 Option, General Studies.

Part II (T4):
(Subjects in preparation).

Part III (T5):
(Subjects in preparation).

The Optional Subjects will be decided by the College.

Application Procedure: Applicants should apply on the standard DIT application form to:—
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.

For Further Information: Mr. C. Cowley, Assistant Head,
Department of Electronic and Communications Engineering,
Telephone: 757541.

INDUSTRIAL ELECTRONICS FOR ELECTRICIANS

College Code: R7.

Duration: Two years — evenings.

Description: This course is directed specially 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.

Entrance Requirements: 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 Department of Education in Electrical Installation Work.



Application Procedure: Applicants should apply on the standard DIT application form to:—
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.

For Further Information: Mr. C. Cowley, Assistant Head,
Department of Electronic and Communications Engineering,
Telephone: 757541.

DIGITAL ELECTRONICS & MICROPROCESSORS

College Code: R8.

Duration: Three years — evenings.

Description: 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.

Attendance Requirements: In all three years of the course attendance is required at the College on two evenings per week.

Entrance Requirements: 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.

Application Procedure: Applicants should apply on the standard DIT application form to:—
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 23rd September.

For Further Information: Mr. C. Cowley, Assistant Head,
Department of Electronic and Communications Engineering,
Telephone: 757541.

ELECTRICAL TECHNICIANS COURSE

- College Code:** ET.
- Duration:** Four years — three or four evenings per week.
- Description:** An evening course which prepares students for the Electrical Practice examinations of the Department of Education and the City and Guilds of London Institute.
- Entrance Requirements:** Prospective students must:
(i) be employed in the electrical industry;
(ii) have passed the Leaving Certificate with Physics or have an approved alternative qualification in the Electrical Trade.
- Course Content:** **Year One:**
Mathematics, Mechanics, Electrical Engineering Principles, Engineering Graphics.
- Years 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 Electrotechnology and Electrical Engineering Practice (Section B — Advanced Stage).
- Application Procedure:** Applicants should apply on the standard DIT application form to:—
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.
- Closing Date:** 23rd September.
- For Further Information:** Mr. J. Farrell, Assistant Head,
Department of Electrical Engineering,
Telephone: 757541.
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LANGUAGE COURSES

CERTIFICATE IN EUROPEAN LANGUAGES/ BUSINESS STUDIES

College Code: WLSF.

Duration: Two years wholetime.

Description: The theoretical and practical content of this course is designed to provide a sound training in modern languages and in business studies for students preparing for an administrative career in export-oriented businesses.

As the Course is at present included amongst the programmes approved under the European Social Fund (ESF) Scheme, students may qualify for a weekly allowance and free tuition while attending it.

Entry Requirements: Irish Leaving Certificate in *five* subjects, including English, *either* French *or* German and Mathematics.

or

such qualification as the College may deem equivalent.

Note: It must be emphasised that the above are the minimum entry requirements for the course. Because of the large numbers seeking entry a much higher standard is necessary in practice to gain a place.

Application Procedure: Applicants should apply on the standard DIT Application Form to:—
The Admissions Office,
Dublin Institute of Technology,
14 Upper Mount Street,
Dublin 2.

Closing Date: 1st February.

Course of Study: **First Year:**
German *or* French with *either* French *or* German *or* Spanish, Business Studies, European Studies, Keyboard Appreciation.

Second Year:
German *or* French with *either* French *or* German *or* Spanish, Business Studies, European Studies.

Award:	Graduates of this course are eligible for the following award:— Certificate in European Languages/Business Studies with grades of Pass, Credit or Distinction as appropriate.
Career Opportunities:	The course is designed to train students to work as personal assistants, executive assistants, commercial translators in many different areas requiring both language competence and a knowledge of business practice.
For Further Information:	Miss M. Broderick, Assistant Head, Department of Languages and Industrial Studies, Telephone: 757541.

POST-GRADUATE DIPLOMA IN APPLIED LINGUISTICS

College Code:	PLAL.
Duration:	One year evening course.
Description:	<p>A post-graduate course in applied linguistics for teachers of modern languages or English as a foreign language, leading to the award of a Post-Graduate Diploma in Applied Linguistics.</p> <p>This course is primarily intended for experienced graduate teachers of French, German or English. It is designed to allow them to examine and evaluate their language teaching in the light of linguistic theories and is not intended as a practical course in language teaching methodology.</p>
Entrance Requirements:	<p>(i) A primary degree in German or French or English and</p> <p>(ii) Minimum two years experience of teaching German or French or English.</p> <p>Applications will be considered from graduates in other European languages.</p>
Examinations:	<p>An examination will be held in June. It will consist of three parts:</p> <p>(i) Paper in General Linguistics.</p> <p>(ii) Paper in Applied Linguistics.</p> <p>(iii) Dissertation.</p> <p>Students may also present themselves for an appropriate examination of The Royal Society of Arts.</p>

Attendance Requirements: Tuesday and Thursday evenings – three hours each evening.

Application Procedure: Applicants should apply on the standard DIT application form to:—
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 20th September.

For Further Information: Miss K. M. Tierney, Head,
Department of Languages and Industrial Studies,
Telephone: 757541.

TRANSLATORS' DIPLOMA

College Code: PDT.

Duration: One year evening course.

Description: A course in translation techniques and practice leading to the Translators' Intermediate Examination offered by the Institute of Linguists Education Trust.

Entrance Either
(a) A University degree in French or German or Spanish

or

(b) A recognised equivalent in French or German or Spanish.

Attendance Requirements: Two evenings (6 hours) per week.

Application Procedure: Applicants should apply on the standard DIT application form to:—
The Registration Section,
College of Technology,
Kevin Street,
Dublin 8.

Closing Date: 20th September.

For Further Information: Miss K. M. Tierney, Head,
Department of Languages and Industrial Studies,
Telephone: 757541.

MODERN LANGUAGES (Practical Use)

- College Code:** PCLL.
- Duration:** One year evening course.
- Description:** A course in the practical use of a foreign language, oral proficiency and the background knowledge of the country of the foreign language. Students may sit the Grade 1 or the Grade 2, the Intermediate or the Final examination of the Institute of Linguists Educational Trust, or the examinations of The Royal Society of Arts or a Chamber of Commerce.
- Entrance Requirements:**
- (a) Elementary Level – Grade 1 – no previous qualification
 - (b) For Grade 2: Leaving Certificate or an equivalent in the modern language, French, German, Spanish, Italian or Russian.
 - (c) For the Intermediate or the Final Diploma: either (i) a University degree in the modern language, French, German, Spanish, Italian or Russian or (ii) a recognised equivalent in the modern language, French German, Spanish, Italian or Russian.
- Examinations:** The Grade 1 and the Grade 2 Certificate Examinations consist of 4 parts.
- (i) Oral: A prepared talk, conversation, sight translation into the foreign language.
 - (ii) Aural: A summary in English of about 100 words of a passage in the foreign language spoken at a speed of 150 wpm.
 - (iii) Comprehension: Translation into English and into the foreign language, and composition.
 - (iv) General knowledge of the country.
- The Intermediate and Final Diploma Examinations consist of:
- (i) Oral: A prepared talk, an interpreting test, conversation.
 - (ii) An essay or a precis in the foreign language on topics of current and general interest.
 - (iii) Translation into the foreign language and into English.
 - (iv) General knowledge of the country.
 - (v) Special subject, either (a) an essay, (b) technical translation, or (c) general interpreting.
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Attendance Requirements:	Two evenings (6 hours) per week.
Application Procedure:	Applicants should apply on the standard DIT application form to:— The Registration Section, College of Technology, Kevin Street, Dublin 8.
Closing Date:	20th September.
For Further Information:	Miss K. M. Tierney, Head, Department of Languages and Industrial Studies, Telephone: 757541.

MODERN LANGUAGES FOR SPECIALIST PURPOSES

College Code:	PCLS.
Duration:	One year evening course.
Description:	A course in language training for scientists, engineers or business people. The emphasis will be on language skills relevant to the professional needs of the student groups. Courses will be held in French, German or Spanish; if the demand for other languages is adequate, courses may be arranged.
Entrance Requirements:	Leaving Certificate or equivalent in the modern language, French, German or Spanish.
Attendance Requirements:	Two evenings (4 hours) per week.
Application Procedure:	Applicants should apply on the standard DIT application form to:— The Registration Section, College of Technology, Kevin Street, Dublin 8.
Closing Date:	20th September.
For Further Information:	Miss K. M. Tierney, Head, Department of Languages and Industrial Studies, Telephone: 757541.

COURSES FOR ELECTRICAL APPRENTICES AND CRAFTSMEN

CABLE JOINTING

- College Code:** T2
- Description:** A course for electricians or apprentice electricians who wish to become proficient in the skills required in jointing underground cables.
- Duration:** Two years: two evenings per week.
- Entrance Requirements:** Prospective students must have passed the Junior Trade Certificate examinations of the Department of Education or have an equivalent qualification, and must satisfy the College that proficiency in Cable Jointing is required in their employment.
- Course:** Both the theory and practice of the techniques are covered.
- Application Procedure:** Applicants should apply on the standard College Apprentice Enrolment Form to:—
The Department of Electrical Installation,
Church Lane,
(Annex to the College).
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ELECTRICAL INSTALLATION AND MAINTENANCE

- College Code:** SEM.
- Description:** This course provides full technical education for apprentice electricians in large industrial concerns.
- Duration:** Four years: Approximately 16 weeks per year.
- Entrance Requirements:** 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.

Application Procedure: Applicants should apply on the standard College Apprentice Enrolment Form to:—
The Department of Electrical Installation,
Church Lane,
(Annex to the College).

ELECTRICAL INSTALLATION WORK

College Code: BESB.

Description: 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.

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

Entrance Requirements: Employment as an apprentice electrician and approved arrangements with a training centre.

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

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

Application Procedure: Applicants should apply on the standard College Apprentice Enrolment Form to:—
The Department of Electrical Installation,
Church Lane,
(Annex to the College).

ELECTRICAL INSTALLATION WORK

College Code: SEAS

Description: 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.

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.

Application Procedure: Applicants should apply on the standard College Apprentice Enrolment Form to:—
The Department of Electrical Installation,
Church Lane,
(Annex to the College).

ELECTRICAL INSTALLATION WORK

College Code: PAA.

Description: This course provides technical and general education for apprentice electricians following "OFF THE JOB TRAINING" provided by AnCO centres.

Practical training is carried out at the appropriate training centre.

Course Duration: One year. Split Block twelve weeks per annum. One week in every three students attend the College plus one evening per week for twenty-six weeks.

At the end of the year the students transfer to either SESB or PEI to cover the Department of Education Senior Trade examination.

Entrance Requirements: Employment as an apprentice electrician and approved arrangements with a recognised training centre.

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

Examinations: Department of Education Junior Trade Electrical examinations.

Application Procedure: Applicants should apply on the standard College Apprentice Enrolment Form to:—
The Department of Electrical Installation,
Church Lane,
(Annex to the College).

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

College Code: T3.

Description: 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.

Entrance Requirements: 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.

Part III Course -- T3. 2/3

Course Duration: Two years: two evenings per week.

Entrance Requirements: 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.

Application Procedure: Applicants should apply on the standard College Apprentice Enrolment Form to:—
The Department of Electrical Installation,
Church Lane,
(Annex to the College).

RECENT DEVELOPMENTS IN ELECTRICAL INSTALLATION TECHNOLOGY

College Code: T4. 1/2

Description: This course is designed to update electrical craftsmen in Electrical Installation Technology.

Course Duration: Two years: two evenings per week.

Entrance Requirements: Prospective students must be electrical craftsmen employed in the electrical industry.

Course: Electrical Science, Electrical Craft Theory, Laboratory Work.

Application Procedure: Applicants should apply on the standard College Apprentice Enrolment Form to:—
The Department of Electrical Installation,
Church Lane,
(Annex to the College).

APPRENTICE ELECTRICIANS (ELECTRICAL INSTALLATION WORK)

College Code: SESB (Block), PEI (Day release).

Description: 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.

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

Course: The courses are based on the relevant examination syllabuses of the Department of Education and the City 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.

Application Procedure: Applicants should apply on the standard College Apprentice Enrolment Form to:—
The Department of Electrical Installation,
Church Lane,
(Annex to the College).



APPRENTICE ELECTRICIANS IN THE AIRCRAFT INDUSTRY

College Code: SEAL.

Description: 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 year.

Entrance Requirements: 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.

Application Procedure: Applicants should apply on the standard College Apprentice Enrolment Form to:—
The Department of Electrical Installation,
Church Lane,
(Annex to the College).

PERSONNEL IN THE ELECTRICAL INDUSTRY

College Code: T1

Description: 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.

Entrance Requirements: Prospective students must be in employment in some branch of the electrical industry. Applicants for the first year, T1.1, may be required to sit an entrance examination and for other years of the course applicants must satisfy the College that they have an acceptable knowledge of the matter covered in the years of the course preceding that for which they apply.

Course: Mathematics, Electrical Craft Practice, Electrical Science and Technical Drawing.

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

Application Procedure: Applicants should apply on the standard College Apprentice Enrolment Form to:—
The Department of Electrical Installation,
Church Lane,
(Annex to the College).

COURSES IN PHYSICAL EDUCATION

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

Swimming	Basketball	Jogging
Life Saving	Hang Gliding	Aerobics
Sub Aqua	Volley Ball	Chess
Water Polo	Yoga	Karate
Sailing	Soccer	Circuit Training
Wind Surfing	Gaelic Games	Tai Chi Chunn
Canoeing	Rugby	ART:
Table Tennis	Fencing	Sketching
Darts	Hockey (Mixed)	Water Colour
Badminton	First Aid	Related Crafts
Judo	Dance	Appreciation



City of Dublin Vocational Education Committee

DUBLIN INSTITUTE OF TECHNOLOGY

COLLEGE OF TECHNOLOGY, KEVIN STREET, DUBLIN 8.

EXTERNAL EXAMINERS FOR COLLEGE DIPLOMA/CERTIFICATE
EXAMINATIONS 1985

Diploma in Applied Sciences.
BSc (Applied Sciences).
Ref: WSAD.

Andrew K. Galwey, BSc, DIC, PhD, DSc,
CChem, FRSC,
The Queen's University of Belfast,

Professor L. W. Barr, BSc, PhD, CPhys,
FInstP, FRSE,
Paisley College of Technology,
Scotland.

Professor Michael B. Glauert, MA, DSc,
FCGI, FIMA,
University of East Anglia,
England.

Professor D. M. X. Donnelly, SDc, PhD,
MRIA,
Dublin.

Diploma in Dietetics and Nutrition.
BSc (Human Nutrition).
Year I (Ref: WBD I)

Peter A. Start, MA, MSc, FICI, CChem, FRSC
Dublin.

David Bamford, BSc, PhD, DSc,
The Queen's University of Belfast.

J. A. Scott, BSc, MSc, PhD, CPhys, FInstP,
Dublin.

Diploma in Dietetics and Nutrition.
BSc (Human Nutrition).
Year 2 (Ref: WBD II)

Professor D. J. Hingerty, MSc, PhD, CChem,
FRSC,
Dublin.

Professor Ronan G. O'Regan, MD, PhD,
Dublin.

Diploma in Dietetics and Nutrition.
BSc (Human Nutrition).
Year III (Ref: WBD III)

Professor J. W. T. Dickerson, BSc, PhD,
FIBiol,
University of Surrey,
England.

Diploma in Dietetics and Nutrition.
BSc (Human Nutrition).
Year III (Ref: WBD III)

Pamela J. Brereton, FRDA,
Northwick Park Hospital and Clinical
Research Centre,
Middlesex,
England.

Diploma in Dietetics and Nutrition.
Year IV (Ref: WBD IV)

M. Agusta Conry, SRD, FBDA,
Leeds Western Health Authority,
England.

Professor J. W. T. Dickerson, BSc, PhD,
DIBiol,
University of Surrey,
England.

Diploma in Ophthalmic Optics.
Year II (Ref: WSO II)

Professor David Pickwell, MSc, FBCOHD,
DOrth,
President, International Optometric & Optical
League,
University of Bradford,
England.

Professor M. G. Harrington, PhD, FICI,
FIBiol, FIFSTI,
Dublin.

Patrick Casey, FAOI,
Ophthalmic Optician,
Athlone.

Diploma in Applied Physics.
Year I (Ref: PSAP I)

Maurice G. Ebison, MD, MA, CPhys, FInstP,
Education Officer,
Institute of Physics,
London,
England.

George A. P. Wyllie, BSc, PhD, CPhys, FInstP,
FRSE,
Glasgow University,
Scotland.

Professor G. F. Imbusch, BSc, MSc, PhD, DSc,
MRIA, CPhys, FInstP, CEng, MIEE,
Galway.

-
- Diploma in Food Science and Technology Year II (Final) (Ref: S.6 II)
- Ronal Walker, MRSC, CChem, PhD, FIFST, Reader in Food Science, University of Surrey, England.
- Maurice O. Moss, BSc, PhD, DIC, ARSC, Senior Lecturer, University of Surrey, England.
- Technicians' Diploma in Applied Science (Applied Biology option) Year II (Ref: WAS II (B))
- Professor S. J. Martin, MSc, PhD, The Queen's University of Belfast.
- Technicians' Diploma in Applied Science (Applied Biology option) Year III (Final Third Year) (Ref: WAS III (B))
- Professor S. J. Martin, MSc, PhD, The Queen's University of Belfast.
- P. Vivion Tarrant, BSc, PhD, FICI, Dublin.
- T. F. McCormack, FIMLS, Mullingar.
- Patrick Griffin, BAgSc, PhD, Ballyfree, Co. Wicklow.
- Technicians' Diploma in Applied Science (Applied Chemistry option) Year III (Final Year) (Ref: WAS III (C))
- J. Fenerty, BSc, PhD, CChem, FRSC, Liverpool Polytechnic, England.
- F. T. Smyth, BSc, PhD, FICI, Dublin.
- Technicians' Diploma in Applied Science (Applied Physics option) Year III (Final year) (Ref: WAS III (P))
- Professor M. C. Sexton, MSc, PhD, DSc, CEng, FIEE, MIEEE, CPhys, FInstP, MRIA Cork.
- Kenneth Hillier, BSc, PhD, DIC, CPhys, FInstP, MIPM, Harrogate, England.
- Technicians' Diploma in Computer Science - Year III (Final year) (Ref: WMT III)
- Professor John G. Byrne, BAI, MA, PhD, DIC, Dublin.
- Kevin Drury, Dublin.
-

Science Laboratory Technicians'
Certificate Year III (Final year)
(Ref: PSL III)

Peter Boyle, MA, PhD, FTCD, FICI,
Dublin.

J. Fenerty, BSc, PhD, CChem, FRSC,
Liverpool Polytechnic,
England.

P. Vivion Tarrant, BSc, PhD, FICI,
Dublin.

Professor W. M. Fogarty, BSc, PhD, FRIC,
Dublin.

Science Laboratory Technicians'
Diploma Year V (Final year)
(Ref: PSL V)

J. Carroll, BSc, MA, PhD, FICI,
Dublin.

J. Fenerty, BSc, PhD, CChem, FPSC,
Liverpool Polytechnic,
England.

P. Vivion Tarrant, BSc, PhD, FICI,
Dublin.

Professor W. M. Fogarty, BSc, PhD, FRIC,
Dublin.

Certificate in Professional Photography
Year III (Final year)
(Ref: PSP III)

Professor Heinz Wedewardt, Diplom Photo-
Graphiker, DGPh-EUROPHOT-BFF,
Fachhochschule Koln.

Rex Roberts, BSc, ABIPP,
Dun Laoghaire,
Co. Dublin.

Advanced Certificate in Professional
Photography Year V (Final year)
(Ref: PSP V)

Professor Heinz Wedewardt, Diplom Photo-
Graphiker, DGPh-EUROPHOT-BFF,
Fachhochschule Koln.

Rex Roberts, BSc, ABIPP,
Dun Laoghaire,
Co. Dublin.

Technician Certificate in Medical Physics
and Physiological Measurement
Year II (Final year) (Ref: PBE III)

Graham Manson, MSc, CPhys, MInstP,
Cork.

Certificate in Sciences for Nurses
Year III (Final year)
(Ref: PSN III)

Ian B. Monk, BSc, CPhys, MInstP,
Deputy Regional Scientific Officer,
West Midlands Regional Health Authority,
Birmingham,
England.

Antoinette Kelleher, CRGN, RSCN, RNT,
Principal Nurse Tutor,
Our Lady's Hospital for Sick Children,
Dublin.

Diploma in Bakery Production and
Management Year III (Final year)
(Ref: WBT III)

Sam Wilson, FTC, (CGLI), MIBB,
Newtownabbey,
Co. Antrim.

Diploma in Medical Laboratory Sciences
Year II (Final year)
(Ref: WAML II)

Professor Ian J. Temperley, MA, MD, MRCI,
MCPATH,
Dublin.

John Cann BSc, FIMLS,
Dublin.

Derek Cullen, FIMLS,
Dublin.

Anthony Murray, FIMLS,
Dublin.

T. F. McCormack, FIMLS,
Mullingar,
Co. Westmeath.

Paul Collier, BSc, PhD,
The Queen's University of Belfast,

Professor D. J. Hingerty, BSc, PhD,
Dublin.

E. Tyrrall, BSc, MSc, CChem, FRSC, FICI,
University of Ulster,
Jordanstown Campus,
Co. Antrim.

Institute of Medical Laboratory
Sciences Assessors

Roger Hall, FIMLS,
St. James's University Hospital,
Leeds,
England.

Institute of Medical Laboratory
Sciences Assessors (contd.)

J. D. Jarvis FIMLS,
The London Hospital,
Whitechapel,
London,
England.

Dennis Kilshaw, MIBiol, FIMLS,
Arrowe Park Hospital,
Merseyside,
England.

Certificate in Medical Laboratory
Sciences Year II
(Ref: WML II)

Sean Hanratty, FIMLS,
Dublin.

Professor John M. Scott, PhD, ScD,
Dublin.

Professor Moira O'Brien, FRCPI,
Dublin.

J. D. Dowsett, BSc, MSc, MIBiol,
Dublin.

Professor H. Ridley, MA, PhD,
Dublin.

National Examiner

Thomas Moloney, BA, FIMLS,
Dublin.

Certificate in Medical Laboratory
Sciences Year III (Final year)
(Ref: WML III)

Mr. Sean Hanratty, FIMLS,
Dublin.

National Examiner

Liam English, FIMLS,
Dublin.

Honours Diploma in Electrical
Engineering Year IV (Final year)
(Ref: SEE IV)

Professor G. T. Wrixon, BE, MSc, PhD, CEng,
FIEE, MRIA,
Cork.

Professor R. Cooper, MSc, PhD, DSc, CEng,
FIEE,
The University of Manchester,
England.

Professor A. M. Rose, BSc, MSc, PhD, FIEE,
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Year III (Final year)
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K. C. Jones, BA (Hons), DipEE, MPhil,
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Post Graduate Diploma in
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Carl James, BA, DipEd, DipLing, PhD,
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