College of Technology, Bolton Street Prospectus 1967-68

City of Dublin Vocational Education Committee

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Prospectus

1967-68

College of Technology

Bolton Street
Dublin

City of Dublin
Vocational Education Committee

School of Architecture
School of Engineering
School of Printing
School of Trades
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Dublin 9 (Chairman)

Councillor James O'Keeffe PC 138 Sundrive
Road Dublin 12 (Vice-Chairman)

Alderman Lauri Corcoran 1 Errigal Road
Dublin 12

Councillor Gilbert Hughes PC 24 Cill Eanna
Raheny Dublin 5

Councillor John McCann 115 Fortfield Road
Dublin 6

Alderman Michael Mullen TD 202 Navan
Road Dublin 7

Councillor Michael Hopper 63 Bothar
Skeansard Dublin 9

Councillor Mrs Catherine Byrne 5 Seaforf
Terrace Seaforf Avenue Dublin 4

Mrs Celia Lynch TD 156 Botanic Road
Dublin 9

Mr Joseph Whitsey 16 Eglinston Terrace
Donnybrook Dublin 4

Rt Rev Monsignor John O'Regan STL
Parochial House, Clondalkin Co Dublin

Mr J B Colgan 50 Cedarmount Road
Mount Merrion Co Dublin

Mr Sean O'Hanlon 1 Turlough Gardens
Philipsburgh Avenue Fairview Dublin 3

Mr Michael Scott FRIA 19 Merrion Square
Dublin 2

Mr A Harkin Chief Engineer Electricity
Supply Board 27 Lower Fitzwilliam Street
Dublin 2

Representative of the Dublin Council of
Trade Unions

Mr Donal F O'Dwyer Principal College of
Technology Bolton Street
<table>
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<th>Advisory Committees</th>
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Advisory Committees

Aeronautical Engineering
P Delaney Aer Lingus Teo Dublin Airport
Lieut-Col J Teague Army Air Corps Baldonnel
Capt P G McCabe Aeronautical Officer
Aviation Division Department of Transport & Power

Motor Engineering
A McAuley BSc Assistant Mechanical Engineer (Road) CIE
Society of Irish Motor Traders
Charles Warren
Automobile General Engineering and Mechanical Operatives' Union
B Leonard General Secretary
P Thewlis
Irish Engineering Industrial and Electrical Trade Union
A P Take
J Drennan
M Geoghegan
Robert J Porter Messrs R W Archer & Co Ltd
Patrick Flanagan Messrs McCairns Motors Ltd
John Keeney LSE Motors Ltd
Maurice Foley Institute of the Motor Industry

Structural Steelwork
L O'Neill National Engineering Union
33 Gardiner's Place
P Dunne
Irish Transport & General Workers' Union
J D Pearson Smith & Pearson Ltd
A Davidson Kennan & Sons
D Purdy Smith & Pearson Ltd
Irish Engineering Industrial & Electrical Trade Union

Printing & Book Production
Irish Printing Federation
B McSweeney
A Field
C J Warren
R R Yates-Hale
L C Jacob
A J Wilson
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N C McGrath
B O Gearbhail BA LLB
E Dignam Stereotypers' Society
Irish Bookbinders' & Allied Trades' Union
J Cullen
Lithographic Artists' and Process-Workers' Society
A Kavanagh
J Jeffers Photo Engraving Group
B Hempton
Amalgamated Society of Lithographic Printers

School of Architecture Surveying and Building
Head of School: Kevin Fox BArch MRIAI
Assistant Head: Albert J Brady BArch MRIAI

School of Engineering
Head of School: The Deputy-Principal
Assistant Head: Denis Fitzgibbon BE CEng AMI MechE

School of Printing and Book Production
Head of School: William J Fitzpatrick AMIOC
Assistant Head: Christopher J McCullagh
Final C & G

School of Trades
Head of School: John B Hickey BA

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Rev John McAvoy SJ

Secretary/Registrar
Liam O'Dúibhcháin FCPA FICA

Offices: College of Technology Bolton Street
Dublin 1 Telephone 49913 (8 lines)
School of Trades Yarnhall Street Dublin 1
Telephone: 49073/4
Annex 62 Eccles Street Dublin 7
Telephone: 41268
ACADEMIC STAFF
School of Architecture, Surveying & Building

Head of School: Kevin Fox BArch MRIAI
Assistant Head: Albert J Brady BArch MRIAI

Department of Architecture & Town Planning
Head of Department: Albert J Brady BArch MRIAI
Assistant Head: John J O’Keeffe BArch MRIAI

Whole-time Staff
Liam Carlin MRIAI AIBA
Michael Clifton BE AMICE
William Gilligan BArch MRIAI
Maurice Hogan MRIAI
Anthony Johnson BArch MRIAI AIBA
Patrick Shaify BArch AIBA

Part-time Staff
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Liam O’Carrol BArch MRIAI
Michael O’Sullivan DipArch MRIAI

Academic Staff

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Dermot Doorley AMIStrucE
Anthony Fitzpatrick BComm
Albers Fleming FIBCS
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AMPHIA
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Terry McLaughlin AIBCS
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DiplLibTRN
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Thomas J O’Brien MIA DIPPHI
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Derek Ryan AIBA MRIAI
G Neville Semple AIOQ
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Dr John Walker MB BCh BOA
Capt M Walsh OS BA
Thomas D Watson MIA
Arthur West RA

Visiting Lecturers
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John MacD Broadhead MA FRICS
Noel J Dooley FRICS FRSci
Noel McDonagh FRICS
Kevin J Nowlan BSc BE MTP
Barrister-at-Law
Ian Roberts MA MAI BArch(Cambs) FRICS
Richard White BE BSc FRICS
Aiden Williams FRICS

Department of Surveying & Building Technology
Head of Department: Christopher W Partner FRICS FIOB FRPS FRSci
Assistant Head: Vacant
Whole-time Staff
Emma de Burca FRICS
Thomas Carroll MIA DiplPHI (Seconded from the Department of Health)
Seamus Cunningham M(Proc)
Christopher Curran AIOB
Daniel Kelly BE
Sean Loftus Barrister-at-Law
Patrick McGinnis FIOB
Kevin Murnane AIBA
Patrick Nugent FRICS
Cornelius Power MSci BComm ACIS ACommA

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Stanley Coghlin FIA FIArb
Patrick J Conroy MIA
Dr Ronald Cox MA MAI PhD AMICE AMICEI

Michael Phillips BArch MRIAI
Sean Rochery BArch MRIAI AIBA
Richard Stringer BArch AIBA AMITEI
Dennis Barry DipArch AIBA
Christopher Dardis MA DipMEC AIBA AMICE

Leif Carville DipArch DipCivicDes BArch
Louis Carville DipArch DipCivicDes AIBA AMITEI

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Leo Mansfield DipArch MRIAI
Sean Murphy DipArch MRIAI
Clarke P O’Carrol BArch MRIAI
Naish O’Dowd DipArch MRIAI
Dr Anthony Orme BA PhD FGS
Michael O’Sullivan DipArch MRIAI
M Purcell

James J Culliton FIBS
Richard Deegan ARPS
Dermot Doorley AMIStrucE
Anthony Fitzpatrick BComm
Albers Fleming FIBCS
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AMPHIA
Dr Derek Goodhue PhD BSc
Cornelius Healy MIA
Seamus Homan AMIHVE
William K Hunt AIBA MRIAI
Liam Jones MBA BComm
Richard Lahart MIA
Michael Maguire MIA
Barry McHugh AIBCS
Terry McLaughlin AIBCS
Michael McNulty MIA
Oliver McNulty GradStructEng
Phillip Molloy MRIAI
Richard Morrison BSc FRICS
Laurence Mullin MA MIA
Gerard Murphy MArch MRGPB
Mary J Nealon Barrister-at-Law
DiplLibTRN
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Mannix O’Boyle MRCS
Eamonn J O’Brien AMIHVE
Thomas J O’Brien MIA DIPPHI
Patrick Callinan FRICS
Mary O’Doherty BA(Mod) BSc
Kevin O’Halloran MBA BComm
Derek Ryan AIBA MRIAI
G Neville Semple AIOQ
Elizabeth O’Shaughnessy BArch
Dr John Walker MB BCh BOA
Capt M Walsh OS BA
Thomas D Watson MIA
Arthur West RA
ACADEMIC STAFF

School of Engineering

Head of School: John D Barry MSc BE CEng MI MechE MICE
Assistant Head: Denis Fitzgibbon BE CEng AMI MechE

Department of Engineering Technology
Head of Department: Denis Fitzgibbon BE CEng AMI MechE
Assistant Head of Department (Acting): Michael O'Donnell MSc BE CEng CEng AM Prod E

Whole-time Staff
Michael Clifton BE AMI MechE
Jeremiah T Cotter BSc
Neil Gillespie Grad MSc BE GHE
Gerard Lawlor MSc
John McQuillan CEng AMI MechE
Donal Murphy Grad ED
Henry J O'Neill CEng M Prod E
D O'Regan MSc
Louis R Purton BSc
Michael Swords BSc (London)
Henry F Taylor CEng AMI MechE
Liam Archer GIM MechE

Extern Lecturers & Examiners
Professor F Koenigsberger DSc MI MechE
Mem ASMME M Prod E Professor of Machine Tool Engineering University of Manchester Institute of Science and Technology
Professor B Crossland MSc PhD DSc
AMI MechE Head of Department of Mechanical Engineering Queen's University Belfast

Part-time Staff
Edward Tunde Boardman Dip Eng GIM MechE
John B Broderick MSc
John P Browne BE
Philip Brunkard GIM MechE
Richard Bunyan BE GIM MechE
Albert F Cunnane BE GIM MechE MWSI
Patrick F Cooke BE AMICE AMIC Eve
James Daly BE AMICE AMIC Eve

Richard Daly
J Doran BE
Edward P Dunne CEng AMI MechE AMICE
Patrick J Dunphy DipEng GIM MechE
Eamonn F McGinty BE
Leigh J O'Brien AMI MechE
William O'Brien AMI Struct E
Aidan O'Connor Dip Eng
Richard F O'Leary
James P Owens BE
James Roche
 Declan Ryan BE
David Semple
Andrew Whelan ME AMICE AMICE
Frank Wight AMIBF HNC
D Wills BE

Department of Science and Mathematics
Head of Department: James A Nunan
BSc HDip Ed
Assistant Head: Gerard Lawlor MSc

Whole-time Staff
Jeremiah T Cotter BSc
Una Gillespie BSc
Matthew Niall MSc BComm

Department of Engineering Trades
Head of Department: Tomás Mac Carthaigh MIE
Assistant Head: John Gribben MI (Hons)

Marguerita O'Kelly BA BScSc Dip SocSc
HDip Ed
Louis P Purton BSc
Michael Swords BSc (Lond)
Mary Tully MSc HDip Ed
Daniel J O'Regan BSc MIEE

Part-time Staff
Patrick J Allen BA HDip Ed (Hons)
P Boyle MSc
William E Boys BA HDip Ed BSc
Paschal C Brennan BA
John B Broderick MSc
Elizabeth Clynacy MSc
J Corish BSc
Martin Flinier MSc
John J Gallagher BSc
M Healy BA
Edward P Lynch BA
Owen McBreen MSc
James P McLaughlin BSc
Patrick M Maguire BSc
Edmund O'Brien BSc
Seamus O'Dea MA HDip Ed
William J O'Hare BA HDip Ed
Raymond J O'Kelly MSc
Denis F O'Sullivan MSc PhD
Desmond A Scannell BSc

Whole-time Staff
Desmond Aungier
Denis McGrath
Charles B O'Brien Grad Plant E
Joseph Shields

Part-time Staff
Patrick J Buckley
Patrick T Byrne
Peter Deane
Christopher Duffy
John Ferris
William Fleming
John Gaynor
William D Hughes FTC (C & G)
John Keane
James F Lawless
Murtagh Logan
Gerald J Meghen HTC
John Moran
Gerard F Murphy
Timothy P Murphy MIE
Desmond O'Carroll
Sean O'Farrell
Kenneth O'Galligan
Andrew O'Hallahan
James Roche
Liam R Wynne

Department of Aeronautical Engineering
Head of Department: Thomas Mcinerney
AMSAS AECD & X Licences
Assistant Head: Vacant
Whole-time Staff
William J Brazil

Part-time Staff
James Roger Bourke
Daniel Brennan A & C Licence
James Coleman X Licence PMG
Eamonn K Dempsey
James Donohoe AME
Alberic Doody AME
Michael P Healy BA
Thomas Higgins AME
James S Hogan AME
Patrick Hogan AME
John A Hughes
Denis McMahon
Patrick M Murphy LAE
Edwin T O’Connor
Andrew O’Neill AME
Denis O’Regan
Joseph P Walsh ASLAE
Douglas Wilson

Department of Automobile Engineering
Head of Department: John Guirke AMIMI
Assistant Head: Richard Dowling MIMI

Whole-time Staff
John A Butler AMInstF DipEng GIMechE
Timothy Giblin

Alan Harbron SIMT TechDip
Michael Kelly SIMT TechDip
Arthur McDermott AMIMI DipSciSc
James McGauran SIMT TechDip
Paul Purcell SIMT TechDip

Part-time Staff
John N Brooks BE AMIMechE CEng
Charles A Bryan AMIMI
Fintan Byrne GradMI
Thomas Carroll AMIMI
Michael J Chesters AMIMatE CEng
Elizabeth Clancy BSc
William Costello DipEng GIMechE
William J Doherty
Edward F Dunne CEng AMIMechE AMICEI
Patrick Furey BE
Vincent Hand
Laurence F Higgins AMIMechE
Reg Keating GIVHE
Brendan A Kelly GradMI
Martin Noel Kennedy BE AMIME
Patrick Lamon SIMT TechDip
Michael Long
Brian McCarrick GradMI
Donal McGonnel GradMI
Eugene Mcinerney GradMI DipEng
John McNamara
Desmond Maguire
Stephen Mason
Patrick Morgan
R H Murphy GradMI
Patrick Murray
John Newman
John O’Gorman GradMI
Herbert O’Leary
Michael O’Neill GradMI
G Pello AMInstF

Whole-time Staff
John Bennett FTC (C & G)
Patrick Daly FTC (C & G)
John M Foley FTC (C & G)
Joseph B Kennedy Final C & G
Matthew Niall MSc BComm
Proinsias O’Feilearnáin BA Final C & G
Dara O Lealthain NDD MSTD MDIA
Brendan Quinn Final C & G
Joseph Reddin FTC (C & G) AMI PgM
Kenneth Richards Final C & G
Robert Sharpe Final C & G

Part-time Staff
Peter A Barry Final C & G
William E Buyers BA HDipEd
Joseph Blake
Bernard Cullinan

ACADEMIC STAFF
School of Printing and Book Production

Head of School: William J Fitzpatrick AMIOP
Assistant Head: Christopher McCullagh Final C & G

Dept Assistant (Letterpress Machine): Philip O’Reilly FTC (C & G)

Ciaran Donaghy BA BComm
Ronald Ennis
Alex Gemmell
Bartholomew Hempton
James P Keane
William Kelly
Michael John Kennedy
Stanley McDonald
Bill Murphy NDD MSIA
Rex MacDonnell MIAPI
Allan McLeod-Martain ACCS
Andrew D Morris FTC (C & G)
Joseph E O’Byrne
Jerome O’Loughlin NT
Henry Owens
James Ross
Aidan Ryan
Shamus Wade MIAPI AGMA
Kevin Waldron
Kevin B Walsh
**ACADEMIC STAFF**

**School of Trades**

Head of School: John B Hickey BA

Department of Building Trades “A”
(Bricklaying and Masonry Furniture Plastering Painting and Decorating Vehicle Building Vehicle Trimming and Vehicle Painting)
Head of Department:
Robert C Grimes FTC (C & G)
Head of Furniture Division:
Michael C Murray Hons C & G

**Whole-time Staff**

Charles Costello
Frederick Hosford
Joseph Lawlor
Gerard O’Tóole

**Part-time Staff**

Christopher Byrne
Francis D Caulfield
Denis Cox
James Farrell
James Fitzpatrick
John Kenny
Patrick Lawlor
Sean Mac Consill
John McCormick
 Liam Milner MSIA
Seamus S O’Dea MA HDip
John P Stephens
John Thorpe

Department of Building Trades “B”
(Carpentry and Joinery and Woodcutting Machinery)
Head of Department: Thomas Bridgeman
ABICC FTC (C & G)
Assistance Head: Joseph P O’Byrne FTC (C & G) LIOB

**Whole-time Staff**

Michael Bridgeman
Thomas Byrne
Andrew Dunne FTC (C & G)
Brendan Dunne LBlde SI LIOB FTC C & G
Aidan Halpin ABICC Final C & G
Patrick Kelly Final C & G
Thomas Kieran FTC (C & G)
Michael McDonnell
John McGuirk

**Part-time Staff**

Louis Byrne ABICC
Donal Cooper
Patrick Hannigan
Sean Rogers Final C & G
James Wall

**Department of Metal Fabrication**

Head of Department: John G Bolton
AMInstW FTC (C & G)

**Whole-time Staff**

James F Bartley Final (C & G)
Nicholas Murray AMInstW
Anthony O’Toole FTC (C & G)
Joseph Quinn AMInstW
Brendan Rooney AMInstW Final (C & G)
Daniel Rooney FTC (C & G) MRSH

**Part-time Staff**

Joseph Noel Armstrong C & G Tech
Patrick Bolton Final C & G
James Bryan Final C & G
Sean Buckley BCD
Albert Byrne Final C & G
William F Carroll
Peter Cowley AMInstW
Christopher Devine
Noel Dunne
Michael C Foran
William Jackson Final C & G
Michael Kane
John F Lynskey
Michael McDaid
Francis N McGloughlin
George Mackey AMInstW
Seamus P Mohan
Joseph K Walsh Final C & G
Thomas Colley
Noel Mullins AMInstW

**Spiritual Directors**

Senior Chaplain: Rev John McAvoys SJ
Rev Edward McAsey SJ
Rev Dermot McKenna SJ
Rev Gerald P Nolan SJ
Rev Kieran Barry-Ryan SJ
Rev Brian Scallan SJ

**Physical Education**

Michael C Doogan
General Regulations

General regulations for Schools and Classes operating under the Authority of the City of Dublin Vocational Education Committee are displayed in the Entrance Hall. All students are subject to these regulations.

Whole-time Courses
Students are admitted at the commencement of the session in September. Applications for admission should be submitted as soon as possible, preferably before the 1st June, on the form obtainable from the Secretary. Candidates awaiting results of examinations may make provisional application. Qualified applicants will be called for interview in September, and may be required to take an entrance examination. Documentary evidence of qualifications should accompany all applications.

Technician Courses
Application is confined to candidates who have attained such a standard of general education as will enable them follow all the subjects of their course. Details of special entrance requirements are shown in the relevant sections of this prospectus. Application requirements are similar to those for whole-time professional courses.

Trade Courses
These classes are provided for the sole purpose of supplementing the practical trade training of persons actually employed at and engaged in the various operations of the trade. The College Council realises that it is impossible for a person to learn a trade solely by attendance at these classes and is further of the opinion that the admission to the classes of persons not actually engaged in the trades would be not only of little use to such persons but would prejudicially affect the instruction of those for whom the classes have been organised. Accordingly, the College Council reserves the right to restrict enrolment in the trade practical classes to those persons who are actually employed in the several processes and operations of the trade. For admission to these classes proof of actual employment in the several processes and operations of the trade will be required.

Changes in Class
The Vocational Education Committee may change any or all of the syllabus, the day and time of meeting of any class and may cancel classes where the enrollment or attendance is considered inadequate. If for some urgent reason a teacher cannot attend or arrange for a deputy, classes may be cancelled without notice.

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

Change of Classes
No exchange of classes may be made without the consent of the Head of Department.

Loss of, or Damage to Personal Property
Whilst every reasonable precaution is taken, the College cannot accept responsibility for damage to or loss of students' property. Bicycles and motorised cycles brought to the College premises by students should be locked and placed in the storage spaces provided. Coats, books, etc., should be clearly marked with the owner's name.

Damage to Equipment and Premises
The cost of the repair or replacement of College property damaged by a student shall be demanded from the student(s) pending a hearing of the charges by the College Council. Students must enter and leave the College buildings in a quiet and orderly manner, and must refrain from making unnecessary noise in corridors or classrooms.

Sessional Examinations
Examinations are held at the end of Session. No student shall be admitted to the Examinations who has not made at least three-fourths of the possible attendance except in special circumstances and at the discretion of the Head of Department. Promotion to a Higher Stage of instruction is contingent on passing the Sessional Examination in the Lower Grade.

Homework
Students are required to submit regularly such homework as may be prescribed by members of the teaching staff.

Laboratory Record
An Experimental Record Book is required to be maintained by each student of a Laboratory Class: an examination shall be made at the end of Session of each student's progress in Laboratory Techniques and experimental ability which will count in the Sessional Examination in that subject.

Discipline
Any member of the teaching staff issuing a directive to any student misconducting himself on the College premises is authorised to enforce disciplinary measures, and the Principal may immediately suspend the student(s) pending a hearing of the charges by the College Council. Students must enter and leave the College buildings in a quiet and orderly manner, and must refrain from making unnecessary noise in corridors or classrooms.

Sessional Examinations
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Students are required to submit regularly such homework as may be prescribed by members of the teaching staff.

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GUIDE TO COURSES

TECHNOLOGICAL & TECHNICIAN COURSES (DAY)

Architecture, Surveying & Building
D/1. Architecture Diploma Course, Whole-time.
D/2C. Building Technicians, Part-time.
D/3B. Diploma Course in Environmental Economics (Progressively supersedes courses in General Surveying). Whole-time.
D/4C. Course for Building Technicians' (progressively supersedes Part-time course in Quantity Surveying). Part-time.
D/5. Diploma Course in Land Surveying. Whole-time.
D/6A. Town & Regional Planning. Whole-time.
D/6B. Town & Regional Planning, Part-time.
D/7. Health Inspectors' Diploma Course, Sandwich.
D/40. Preliminary Course, Whole-time.
D/41. Pre-professional Course in Engineering, Whole-time.
D/42A. Diploma Course in Mechanical Production & Structural Engineering. Whole-time.
D/42B. Part-time Professional Course.
D/42C. Mechanical Engineering Technicians' Course. Part-time.
D/42E. Civil Engineering Technicians, Part-time.
D/42F. Civil Engineering Works Managers. Part-time.
D/43. Engineering Draughtsmanship, 1st Year. Whole-time, 2nd & 3rd Year Part-time.
D/44. Automobile Engineering, Whole time.
D/45. Aircraft Technicians' Course, Sandwich.
D/46. Engineering Apprentices' Courses, A. Sandwich, B. Part-time Sandwich.
D/47. Trainee Draughtsmen, Sandwich.

Printing & Graphic Design
D/82. Training for Administrative Staff. Part-time.

TECHNOLOGICAL & TECHNICIAN COURSES (EVENING)

Architecture, Surveying and Building
E/1B. Course for Building Technicians (progressively supersedes course in Building Technology.
E/2. Land-surveying and Levelling.
E/3. Timber Technology.
E/40. General Certificate in Education.
E/41. Graduate Courses in Engineering.
E/42. Certificate Engineering Technicians' Course.
E/42C, Mechanical Engineering Technicians' Course.
E/42D, Heating, Ventilating and Airconditioning.
E/43, Engineering Draughtsmanship.
E/44B, Jig & Tool Design Technology.
E/46, Aeronautical Engineering Technicians.
E/47, Diesel Maintenance.
E/48, Welding Technicians' Course.
E/49, Automobile Engineering Technician.
E/50, Refrigeration Engineering Technicians.

Printing
E/81, Printing Technology.
E/82, Training for Administrative Staff.
E/83, Applied Printing.
E/84A, Costing.
E/84B, Estimating.
E/85, Paper Technology and Marketing.
E/86, Typographic Design and Layout.
E/89, Basic Diploma Course in Advertising.
E/90, Diploma Course in Advertising.

Short Courses
Each session, short courses are held consisting, usually, of eight to twelve lectures relating to special aspects of Building, Engineering or Printing Technology. Details of these short courses are advertised in the daily newspapers.

TRADE COURSES (PART-TIME DAY)
Architecture, Surveying and Building
D/101, Bricklaying.
D/102, Furniture Trades.
D/103, Carpentry and Joinery.
D/105, Painting and Decorating.
D/106, Plumbing.
D/107, Vehicle Building.
D/108, Woodcutting Machinists' Work.
D/109, Vehicle Trimming.
D/110, Woodfinishing.
D/111, Upholstery, Engineering
D/141, Fitting and Turning, Block release.
D/142A, Automobile Engineering Technicians. Block release.
D/143, Gas & Electric Welding. Part-time.
D/149, Sheet Metal, Part-time.
D/150, Structural Steel & Boilermakers. Part-time.

Printing
D/184, Process Engraving. Part-time.
D/188, Stereotyping and Electrotyping. Part-time.
D/190, Compositors' Work. Block Release.
D/195, Film Make-up. Block release.

TRADE COURSES (EVENING)
Architecture, Surveying and Building
E/101, Bricklaying.
E/102, Furniture Trades.
E/103, Carpentry and Joinery.
E/105, Painting and Decorating.
E/106, Plumbing.
E/107, Vehicle Building.
E/108, Woodcutting Machinists' Work.
E/109, Vehicle Trimming.
E/110, Woodfinishing.
E/111, Upholstery, Engineering
E/141, Fitting and Turning.
E/142, Motor Mechanics' Work (Advanced).
E/143, Gas and Electric Welding.
E/144, Patternmaking.
E/145, Foundry Work.
E/146, Brassfinishing.
E/147, Boilermaking.
E/148, Smith and Art Ironwork.
E/149, Metalplate Work.
E/150, Structural Steelwork.
E/151, Heating Engineering Fitters.

Printing
E/181, Book Finishing and Book-Edge Gilding, Artistic Book Finishing.
E/185, Linotype, Intertype and Teletyping.
E/186, Monotype Casting.
E/187, Monotype Keyboard.

PHYSICAL EDUCATION
E/201, Physical Education for Men,
Entrance Standard

The preliminary educational qualifications required for enrolment are as follows:

1. (a) Matriculation of the National University of Ireland.
   (b) Matriculation of London University.
   (c) Matriculation of Queen's University, Belfast.
   (d) An Examination exempting from any of the foregoing.

   A candidate claiming exemption on any of the foregoing head shall submit written evidence of such exemption.

The applicant shall have passed in the following subjects:

1. Mathematics.
2. English.
3. French, German, Italian or Spanish.

And passed in at least two of the following subjects:

4. (a) Physics.
   (b) Chemistry.
   (c) Mechanics or Applied Mathematics or Mathematical Physics.
   (d) History.
   (e) Geography.

Subjects of Instruction are:

First Year

Studio Work; Building Construction and Materials; History of Architecture; Mathematics; Mechanics; Physics; Chemistry; Geometry.

Second Year

Studio Work; Theory of Architecture; History of Architecture; Building Construction; Building Services I; Theory of Structures; Craftwork.

Third Year

Studio Work; Theory of Architecture; Building Construction; Building Services II; Building Materials; Structural Engineering; Craftwork; Surveying and Levelling.

Fourth Year

Studio Work; Theory of Architecture; Building Construction; Structural Engineering; Professional Practice (including Cost Controls and Site Management); Interior Design (including furniture design); Town Planning Theory (including Sociology); Economics.
Fifth Year
Studio Work; Structural Engineering; Professional Practice; Town Planning (Theory); Specifications and Materials. Studio Work includes Architectural Drawing, Architectural Design, Building Construction, Drawing, Graphics and in the case of the First Year only, Geometrical Drawing; and in the case of the Fifth Year only Landscape Design.

Fee £50 per annum.

D/2B. HIGHER BUILDING TECHNICIANS' CERTIFICATE COURSE
A pass level course leading to a Certificate in Building Technology. The course is of three years' duration and designed to prepare students for Licentiateship of the Institute of Building and the Building Surveyors' Institute and Technician Membership of the Incorporated Association of Architects and Surveyors.

Subjects:
First Year
Mathematics; Science; Logic; History and Structure of the Building Industry; Principles of Accountancy; Functional Elements of Construction.

Second Year
Building Science; Building Construction and Services; Law of Contract; Law of Property (Elements); Planning and Compensation Law; Land Surveying (Elements); Town and Country Planning (Elements); Valuations (Elements); National and Local Taxation (Elements).

Third Year
Design and Construction Economics; Economics of Land Use (Elements); Law of Obligations, Rights and Easements; Law of Property (Advanced); Land Surveying (Advanced); Town and Country Planning (Intermediate); Valuations (Intermediate); National and Local Taxation (Advanced); Estate Management (Elements).

Practical Experience:
Students are required to gain Industrial and Professional experience during the extended summer vacations.

Entry Qualifications:
(a) The Secondary Schools Leaving Certificate with a minimum of two subjects at honours level.
(b) The Matriculation Certificate of a recognised University.
(c) The General Certificate of Education with a minimum of two subjects at Advanced level.

Fee £50 per annum.

D/3B. DIPLOMA COURSE IN ENVIRONMENTAL ECONOMICS
(Progressively supersedes Course in General Surveying)
An honours level course leading to a Diploma in either Estate Management or Town Planning. The course is of four years' duration and designed to prepare students for Associateship of the Royal Institution of Chartered Surveyors.

D/4B. DIPLOMA COURSE IN CONSTRUCTION ECONOMICS
(Progressively supersedes Courses in Building Technology and Quantity Surveying)
An honours level course leading to a diploma in either Building Management or Quantity Surveying. The course is of four years' duration and designed to prepare students for Associateship of the Royal Institution of Chartered Surveyors, The Institute of Building, The Building Surveyors' Institute, The Institute of Quantity Surveyors and the Incorporated Association of Architects and Surveyors.
Subjects: Project Planning and Network Analysis
First Year: Mathematics; Science; Logic; History and Structure of the Building Industry (Introductory); Principles of Law; Mathematical Statistics; Principles of Accountancy; Economics; Functional Elements of Construction.
Second Year: Building Science; Building Construction and Services (Elements); Law of Contract; Law of Property; Land Surveying and Setting Out (Elements); Site and Office Organisation; Works Study and Costing; Quantities (Elements); Structure of the Industry (Communications).
Third Year: Principles of Structural Design; Building Construction and Services (Advanced); Law of Obligations, Rights and Easements; Land Surveying and Setting Out (Advanced); Project Planning and Network Analysis (Advanced); Estimating (Advanced); Computer Applications; Arbitrations and Building Contracts; Thesis on an aspect of the Industry.
Diploma in Quantity Surveying: Quantities (Advanced); Cost Planning and Research; Economics of Building Construction and Development; Computer Applications; Arbitrations and Building Contracts; Thesis on an aspect of Cost Research.
Practical Experience: Students are required to gain Industrial and Professional experience during the extended summer vacations.
Entry Qualifications:
(a) The Secondary Schools Leaving Certificate with a minimum of two subjects at honours level.
(b) The Matriculation Certificate of a recognised University.
(c) The General Certificate of Education.
Fee £50 per annum.

D/5. DIPLOMA COURSE IN LAND SURVEYING
An honours level course leading to a Diploma in Land Surveying. The course is of four years' duration and designed to prepare students for the Institute of Building.
Subjects:
First Year: Pure Mathematics I, Applied Mathematics I, Physics I, Elementary Surveying and Cartography I, Geology I.
Second Year: Building Science; Building Construction and Services; Building Calculations; Principles of Structural Design.
Third Year: Building Construction and Services; Measurement and Price Build-up; Land Surveying and Setting Out; Elements of Administration.
Fee £25 per annum.

D/4C. PART-TIME COURSE FOR BUILDING TECHNICIANS
(Progressively supersedes Part-time Course in Quantity Surveying)
The course is of four years' duration with attendance on one whole day and two evenings each week and is designed to prepare students for the Advanced Technological Certificate examinations of the Department of Education and the Construction Technicians' Certificate Examination of the City & Guilds of London.
Fourth Year
Photogrammetry II.
Control Surveys II.
Field Astronomy II.
Geodesy.
Urban and Regional Planning.
Computer Applications.
Thesis on an aspect of Land Surveying.

Entry Qualifications
(a) The Secondary Schools Leaving Certificate with a minimum of two subjects at honours level.
(b) The Matriculation Certificate of a recognised university.
(c) The General Certificate of Education with a minimum of two subjects at Advanced level.

Fee £50 per annum.

D/6A. TOWN AND REGIONAL PLANNING (WHOLE-TIME)
This is a two-year full-time course, the second year may be part-time which prepares students for the Final Examination of the Town Planning Institute and leads to a Diploma of Town and Regional Planning.

Entrance Standard
Students are required to have passed or to be eligible for exemption from the Intermediate Examination of the Town Planning Institute.

Subjects

Fee 1st Year £70 per annum, 2nd Year £35 per annum.

D/6B. TOWN AND REGIONAL PLANNING (PART-TIME)
This is a three-year post-graduate course to prepare students for the Final Examination of the Town Planning Institute. It involves part-time day and evening attendance.

Entrance Standard
Same as for Course D/6A.

Subjects
Same as for Course D/6A.

Fee £35 per annum.

D/7. DIPLOMA COURSE IN HEALTH INSPECTION
A course of four years' duration organised in consultation with the Department of Health and the Health Inspectors' Training Board. The Department of Health is responsible for the selection and sponsoring of students.

Subjects:
First Year
Mathematics; Biology; Micro-biology; Anatomy and Physiology; Chemistry; Physics; Building Construction and Draughtsmanship; Theory of Structures; Local Government Law and Administration; Elementary Hygiene and Introduction to Food Hygiene; Philosophy.

Second Year
Statistical Mathematics; Entomology and Parasitology; Micro-Biology; Food and Food Inspection; Chemistry and Physics; Offensive Trades and their Control; Building Construction and Draughtsmanship; Building Science; Public Health Law and Administration and Report Writing; Surveying and Levelling; Drainage and Sewerage; Water Supplies.

Third Year
Vital Statistics; Pest Control; Public Cleansing; Food and Food Inspection—Food and Drugs; Specifications, Quantities, Costing and Estimating; Atmospheric Pollution; Building Construction; Heating, Lighting and Ventilation; Public Health Law and Administration and Report Writing; Infectious Diseases and their control; Drainage and Sewerage; Water Supplies.

Fourth Year
Radiation, Health, Safety and Disposal, Radiation Hazards; Port and Airport Sanitation; Health Education; Food and Food Inspection; Inspection, Report Writing and Office Administration; Atmospheric Pollution; Building Hygiene; Heating, Lighting and Ventilation; Public Health and Housing Law; Public Cleansing.

Practical Experience
Students spend six months of each year in the field.

Entry Qualifications
(a) The Secondary Schools Leaving Certificate.
(b) The Matriculation Certificate of a recognised University.
(c) The General Certificate of Education.

D/8. CERTIFICATE COURSE FOR ARCHITECTURAL TECHNICIANS
This is a three-year whole-time course designed to train Architectural Technicians and leading to the Architectural Technicians' Certificate. The Final examination of the course is accepted as a qualification for Associate membership of the Institute of Architectural and Associate Technicians, and for membership after two years of practical experience.

The course extends from mid-October to
mid-May and during the Summer vacation
students are required to gain approved
drawings during practical experience in
professional offices. This vacation work is optional between
the 2nd and 3rd year.

Entrance Standard
The Secondary Schools’ Leaving Certificate
in five subjects which must include
Mathematics and English.

Subjects:
First Year
Maths, Building Science, Mechanics,
Surveying & Levelling, Geometry, Building
Construction, Free Drawing,

Second Year
Building Construction, Building Materials &
Specifications, Building Science, Structures,
Surveying & Levelling, Building Services,
Architectural Drawing.

Third Year
Building Construction, Building Materials,
Structures, Building Services,
Surveying & Levelling, Structure of the
Building Industry, Architectural Practice
and Procedure.

Fee £30.

D/40. PRELIMINARY COURSE

This is a one-year whole-time course
commencing each year in mid-September.
Its purpose is to prepare suitable students
for entry to the Pre-Professional Course in
Engineering or for positions as junior
engineering technicians in industry.

Entrance Requirements:
(a) Leaving Certificate of the Department of
Education with passes in Mathematics,
English, and three other subjects;
or (b) have satisfactorily completed a
recognised post-Intermediate (or Group
Certificate) continuation course.

Course of Study:
The subjects studied are:
Physics, Chemistry, Engineering Drawing,
Workshop Practice, Social Science and
Physical Education,
Examinations and Other Requirements

Students are required to:
(a) take the College examinations at the
end of the session;
(b) present laboratory notebooks and year’s
work to the satisfaction of the examiners;
(c) have a satisfactory attendance record
in all subjects;
(d) have a satisfactory attendance record
in all subjects;
(e) complete the vacation training
programme at the end of the year.

Membership of Professional Institutions
Students are strongly urged to apply to the
appropriate Engineering Institution for
Student Membership when they have
satisfactorily completed this course.

Fee £15 per annum.

D/41. PRE-PROFESSIONAL COURSE IN ENGINEERING

This is a one-year sandwich course
consisting of eight months’ academic work
commencing in mid-September, and three
months’ practical training in industry. Its
purpose is to prepare suitable students for
entry to the Diploma Courses in Mechanical
and Production Engineering.

Entrance Requirements

(a) Leaving Certificate of the Department of
Education with honours in Mathematics,
Physics, English and two other subjects;
or (b) the General Certificate of Education
at Ordinary Level in Additional Pure
Mathematics, Physics, English Language,
and two other subjects;
or (c) Such other qualifications as the
College may deem to be appropriate.

Course of Study:
The subjects studied are:
German, Mathematics & Applied Math,
Engineering Drawing, Experimental Physics,
Chemistry, Philosophy, Practical Engineering
and Tutorials.
Examinations and Other Requirements

Students are required to:
(a) Take the College examination at the
end of the session.
(b) Take the G.C.E. at Advanced Level in
Mathematics, Physics. They may also take the
“A” Level examination in Technical Drawing
and Applied Mathematics.
(c) Have a satisfactory attendance record
in all subjects.
(d) Present laboratory notebooks and year’s
work to the satisfaction of the examiners.
(e) Complete the vacation training
programme at the end of the year.

Membership of Professional Institutions
Students are strongly urged to apply to the
appropriate Engineering Institution for
Student Membership when they have
satisfactorily completed this course.

Fee £35 per annum.

D/42A. DIPLOMA COURSE IN MECHANICAL, PRODUCTION &
STRUCTURAL ENGINEERING

(1) Mechanical Engineering
This is a three-year sandwich course
consisting of eight months’ academic work
each year commencing in mid-September, and
three months’ practical training in industry.
The following schemes are in operation.
(a) College-Based Scheme. Suitable students
are enrolled by the College, which then
directs their academic studies and assists in
arranging vacation training each summer.

Certain Local Authorities award
scholarships which are applicable to this
course and students should apply to their
local body.
(b) Industry-Based Scheme. Suitable
students whose employers are prepared to
sponsor them for the duration of the course
may be admitted. Employers make their
own arrangements with their students
regarding the payment of fees, wages, books,
Third Year

Final Year

Examinations and Other Requirements
Students will not be permitted to advance to the next year of the course unless they have (a) satisfied the examination requirements; (b) have a satisfactory attendance record in each subject they are required to attend; (c) have presented Laboratory and Year's Work to the satisfaction of the examiners; (d) have satisfactorily completed the vacation training programme for the year.

Award of Diploma in Mechanical Engineering (Dip. Eng.)
At the completion of the course students who have been successful in the Final examination and who have satisfactorily completed their project will be eligible for the award of the Diploma in Mechanical Engineering.

Students holding the Diploma will be granted complete exemption from the present Parts I and II examinations of the Institution of Mechanical Engineers and also the Mechanical Engineering Technological Certificate examinations of the Department of Education. Students attend on two days per week.

Entrance Requirements
Leaving Certificate standard or the Elementary Stage of the Institution of Mechanical Engineers. Fee £50 per annum.

D/42B. MECHANICAL ENGINEERING PART-TIME DAY COURSE
This is a four-year part-time day and evening course designed to meet the Studentship Part I and Part II examinations of the Institution of Mechanical Engineers and also the Mechanical Engineering Technological Certificate examinations of the Department of Education. Students attend on two days per week.

Course of Study
First Year Mathematics, Mechanics, Heat, Light & Sound, Electricity, General Studies.
Second Year Mathematics, Mechanics, Physics.

Students who have been successful in the Final Examination of the Year will be eligible for the award of the Diploma in Production Engineering. Students holding this Diploma will be granted complete exemptions from the present Part I, II and III requirements of the Institution of Production Engineers. Fee £50 per annum.

(3) Structural Engineering
This is a three-year sandwich course consisting of eight months' academic work and three months' training in structural design offices. The general scheme and requirements are as in the Mechanical Engineering Diploma Course. Each year students will take certain options in Structural Engineering, and will be required to attend appropriate evening classes as directed.
Examinations and Other Requirements

Students may take the following examinations:

- At the end of the first year: G.C.E. "O" Levels and Intermediate Stage of Technological Certificate.
- At the end of the first year "A" Advanced Level G.C.E.

D/42C. PART-TIME MECHANICAL ENGINEERING TECHNICIANS' COURSE

This is a part-time day course intended to prepare suitable students for the City & Guilds of London examinations for Mechanical Engineering Technicians (293). The course is to suit technicians engaged in the following types of employment:

- Jig & Tool Design
- Engineering Production
- Engineering Planning and Plant Engineering

Course of Study

First Year
- Workshop Processes and Practice
- Engineering Drawing and Materials
- Engineering Science, Mathematics, General

Studies together with a supplementary subject to suit special requirements.

Second and Third Years
- Engineering Science, Mathematics, General Studies, Applied Technology and appropriate option.

Fourth Year
- Applied Technology and one specialised subject selected from Jig and Tool Design, Product Design, Engineering Production, Mechanical Engineering Inspection, Plant Engineering and others.

Examination and Other Requirements:

- At the end of the first year, students take the Part I examination of the City & Guilds of London Institute No. 293, Part II at the end of the third year, and Part III at the end of the fourth year.

Fee £15 per annum.

D/42D. HEATING, VENTILATING & AIRCONDITIONING TECHNICIANS' COURSE

This is a part-time day and evening course intended to prepare suitable students for the City & Guilds of London examinations for the Heating, Ventilating & Airconditioning Technicians' Certificate (No. 339).

Entrance Requirements

(a) Satisfactory completion of Course D/43 or
(b) Dept. of Education Intermediate Technological Certificate or
(c) Honours Leaving Certificate in Mathematics and Physics or
(d) GCE 'O' Level Mathematics, Drawing, English and a Science Subject.

Course of Study

First Year
- Ventilation & Air Conditioning.

Second Year
- Heating & Hot Water Services, Principles of Electricity, Mechanics, Mechanics of Fluids.

Third Year

Examinations and Other Requirements

At the end of the first year students take the Part I examination (No. 339) of the City & Guilds of London Institute, and the Part II at the end of the third year.

Fee £15 per annum.

D/42E. CIVIL ENGINEERING TECHNICIANS' COURSE

This is a part-time day and evening course for Civil Engineering Technicians.

Entrance Requirements

(a) Leaving Certificate Standard,
(b) Satisfactory completion of Course D/43.

Fee £15 per annum.
D/42. CIVIL ENGINEERING WORKS MANAGERS' COURSE

This is a four-year part-time day course intended for Civil Engineering Technicians and Trainee Civil Engineering Works Managers. Students attend on Friday afternoons and evenings.

**Entrance Requirements**
Students should have reached the Leaving Certificate Standard and be already employed as trainee managers in the field of Civil Engineering and Construction.

**Course of Study**
(a) During the first two years:
Mathematics, Applied Mechanics, Drawing, Surveying, Hydraulics, Electricity and Road Engineering.

(b) During the third year:

(c) During the final year:
Accountancy, Industrial Law, Management Techniques, Personnel Management.

**Examination and Other Requirements**
Students must sit and pass a college examination at the end of each year. They are also encouraged to sit the GCE examinations in certain subjects at the end of the first and second years. Students who successfully complete the course may be exempted from the examination requirements of the Institute of Works Managers.

Fee: £15 per annum.

D/43. ENGINEERING DRAUGHTSMANSHIP COURSE

This is a one-year course to prepare students for employment as trainee draughtsmen. At the end of the year, successful students take up employment as trainees and their course of study will be related to their specialisation in Mechanical, Civil or Heating and Ventilating Engineering.

**Entrance Requirements**
(a) Leaving Certificate, Matriculation or equivalent standard or (b) have completed G.C.E. "O" Level Course.

**Course of Study**
The subjects studied are as follows:
Mathematics, Mechanics, Applied Physics, Civil Engineering, Surveying, Draughtsmanship, General Studies, Workshop Theory and Practice, Building Construction, Building Services, Tutorials, Philosophy, Physical Education.

**Examination and Other Requirements**
Students must pass a college examination at the end of the year.
Fee: £15 per annum.

D/44. AUTOMOBILE ENGINEERING COURSE

This course is arranged to meet the examination requirements of the Institute of the Motor Industry (Inc.), the Institute of Road Transport Engineers, the Institute of Automobile Assessors, and The Society of Engineers (Inc.). Students attend the College for 32 hours per week for the period mid-September to April. The full course extends over three years. During the summer recess students are required to obtain suitable employment in the Automobile Engineering Industry.

**Entrance Requirements**
The entrance standard required is the Secondary Schools Leaving Certificate (including Maths and a Science subject) or an equivalent certificate.

**Course of Study**
First Year

Second Year

Final Year

**Examination and Other Requirements**
Students are required to:
(a) take the Section A examinations of the above Institutes at the end of the first year
(b) take the Section B examinations at the end of the second year, and (c) take the Section C examinations at the end of the third year.

**Fee**
£25 per annum.
D/45. AIRCRAFT TECHNICIANS' COURSE

This course is a four-year sandwich course to train Aircraft Technicians for the I.C.A.O. Licensed Maintenance Engineers' Licences issued by the Department of Transport and Power. Students attend the College from September to May inclusive and spend the remainder of the year in the Aircraft Industry.

**Entrance Requirements**

(a) Intermediate Certificate of the Department of Education with honours in Mathematics, Science, and one other subject and at least a pass in Art or Drawing and Irish or English; or
(b) Day Group Certificate of the Department of Education with at least the following subjects: Mathematics, Science, and one other subject or Irish or English, Mechanical Drawing, having secured a First Class Pass in Mathematics and Woodwork or Metalwork, Irish or English, French, English, Social Science, Physical Education, Mechanics, Mathematics, Drawing, Workshop Technology, Aero, Laboratory, Workshop Practice, Heat Engines, Materials.

**Final Year**


**Examination and Other Requirements**

Students are required to pass examinations as follows:

(a) At the end of the first year the Department of Education Junior Trade Group Certificates in Fitters' and Turners' Work and the Department of Education Elementary Stage Technological Examinations in Mechanical Engineering (Subjects: Mathematics, Heat, Mechanics, Machine Drawing and Workshop Technology).

(b) At the end of the second year—the Department of Education Senior Trade Group Certificate in Fitters' Work and the Department of Education Intermediate Stage Technological Examinations in Mechanical Engineering (Subjects: Mathematics, Heat, Mechanics, Machine Drawing and Workshop Technology).

(c) At the end of the third year—the Department of Education Senior Turning and Senior Workshop Technology and the Department of Education Advanced Stage Examinations in Mechanical Engineering (Subjects: Applied Mechanics, Heat Engines, Mathematics, Machine Construction and Design).

(d) At the end of the fourth year—the Department of Education Higher Examination in Aeronautical Engineering Practice Part I (Paper 171/1 1st Written, 171/2 2nd Written, 171/3 3rd Written).

**Course of Study**

The subjects studied are as follows:

**First Year**

French, English, Social Science, Physical Education, Physics, Mechanics, Mathematics, Drawing, Workshop Technology, Aero, Laboratory, Chemistry, Workshop Practice.

**Second Year**


**D/81. PRINTING TECHNOLOGY**

This course is designed for those who wish to make a technological study of all branches of Printing and allied processes with a view to fitting themselves for managerial and supervisory posts. It is based on the syllabus of the Full Technological Certificate of the City and Guilds of London Institute and students are prepared for the Final and Full Technological examinations of that Institute.

Minimum qualifications for admission to course is the Senior Trade Certificate of the Department of Education in Compositors' Work or Letterpress Machine Work. The course occupies three years and is based on one day release per week (7 hours) and two evenings per week (5 hours) for the first two years and three evenings per week (6 hours) for the third year. The training in the above courses will be supplemented by:

(a) Visits to industry,
(b) Lectures by specialists on particular aspects of the industry.

Fee £10 per annum.

**D/82. TRAINING FOR ADMINISTRATIVE STAFF**

The course is intended for those engaged in the Clerical and Administrative side of printing with a view to preparing them for higher administrative posts in the Industry. Consequent on the expansion of the industry a definite need exists for the training of young men, already engaged in the Industry, to fit them for promotion to administrative posts. The course occupies three years; the first two are mainly
concerned with Trade Techniques, Costing and Estimating, and the third year with Administrative studies.

To secure optimum results the numbers enrolled for the course will be limited to a maximum of twelve each year.
The age group for trainees is between 19 and 24 years, and the minimum educational qualification required is the Leaving Certificate.

Students at the end of the first year will be required to pass the Preliminary Technical Knowledge Examination of the British Federation of Master Printers.

A Diploma will be awarded to those who, having attended the full course, have passed the examination for all subjects.
The training in this course will be supplemented by:
(a) Visits to industry.
(b) Lectures by specialists on particular aspects of the industry.

Fee €15 per annum.

D/86. GRAPHIC DESIGN

This three-year course trains students as specialist Graphic Designers for entry into Design Groups, Advertising Agencies and Printing offices. It operates in conjunction with a course in the National College of Art. The course offers instruction not only in Design but in practical techniques of printing and graphic reproduction.

The student's work will be reproduced by the various printing processes operating at the school—letterpress, lithography, photo-lithography, silk-screen, all methods of typesetting and bookbinding.

Entry subject to Leaving Certificate standard: specimens of work indicative of promise.

Fee €10 per annum.

D/152. HEATING AND VENTILATING TECHNICIANS' COURSE

Course
This is a three-year part-time day course entailing attendance on one day per week. The course is intended for those who have satisfactorily completed Course D/151 and who aspire to be potential foremen.

Entrance Requirements
Applicants must have completed an apprenticeship in heating and ventilating craft practice, and should preferably have completed Course D/151.

Examination Requirements
Students will be required to sit the examinations of the City and Guilds of London Institute for Heating and Ventilating Technicians—No. 181.

Fee £10 per annum.

D/170. CITY AND Guilds OF LONDON INSTITUTE—
MOTOR VEHICLE TECHNICIANS' WORK

This is a two-year part-time day and evening course arranged as an extension of the 168 and 169 courses and students prepare for the Full Technological Certificate in Automobile Engineering. Attendance at the College is required for one full day (7 hours) and two evenings (6 hours) per week.

Entrance Requirements
Students are required to have completed Course 168 or 169 and to have passed either the 168 or the 169 examination.

Course of Study
The subjects studied are as follows:

First Year

Second year

Fee £10 per annum.
Technological and Technician Courses (Evening)

A three-year course designed for the preparation of students for careers in technical and technological fields. It is intended as a preparatory course for entry into technological and technician programs at the University of Saskatchewan.

Entrance Requirements
- A minimum of 12 credits in high school mathematics, including algebra.
- Completion of the fifth grade of high school.

Program of Study
- English
- Mathematics
- Science
- Social Science
- Industrial Arts
- Commercial Arts
- Home Economics
- Vocational Education

Graduates of this program are eligible for admission to technical and technological programs at the University of Saskatchewan.

Contact Information
- registrar@sasku.ca
- 306-384-1000
TECHNOLOGICAL & TECHNICIAN COURSES (EVENING)

E/1A. Building Technology
A six-year course (including a preliminary year) to meet the needs of students who are employed or intend to be employed in a technical capacity on the contracting side of the building industry.

The course will prepare students for the examinations of the following bodies: The Institute of Builders (Intermediate and Final (Part 1) Examinations); The Institute of Clerks of Works in Ireland (Intermediate and Final Examinations); City and Guilds of London Institute (Building Technician’s Certificate and Certificate Examinations in Builders’ Quantities); The Department of Education (Certificate Examinations in Building Technology—elementary, intermediate and advanced stages). Associated attendance on three evenings of each week is designed to prepare students for the Advanced Technological Certificate examinations of the Department of Education and the Construction Technicians’ Certificate Examination of the City & Guilds of London Institute (which leads to Technician Membership of the Institute of Building).

Subjects
First Year
Building Science; Building Construction and Services; Building Calculations.

Second Year
Building Science; Building Construction and Services; Building Calculations; Safety Regulations.

Third Year
Building Construction and Services; Measurement and Price Build-up; Land Surveying and Setting Out.

Course for Building Technicians
(Progressively supersedes Course in Building Technology, E/1A)
The course is of four years’ duration with attendance on three evenings of each week and is designed to prepare students for the Advanced Technological Certificate examinations of the Department of Education and the Construction Technicians' Certificate Examination of the City & Guilds of London Institute (which leads to Technician Membership of the Institute of Building).

Subjects
First Year
Building Science; Building Construction and Services; Building Calculations.

Second Year
Building Science; Building Construction and Services; Building Calculations; Safety Regulations.

Third Year
Building Construction and Services; Measurement and Price Build-up; Land Surveying and Setting Out.

Fourth Year
Building Construction and Services; Measurement and Price Build-up; Land Surveying and Setting Out.

Practical Experience
Students are required to be employed in the Building Industry.

Entry Qualifications
Full Technological Certificate in Building Crafts of the City and Guilds of London Institute.
Fee £10 per annum.
E/3. Timber Technology
A three-year course to prepare students for the final examinations of the Institute of Wood Science.
Fee €10 per annum.

E/40. General Certificate of Education Courses
The following subjects are offered at ordinary level: English, Pure Mathematics, Additional Pure Mathematics, Physics, Chemistry, Geology, Technical Drawing and Surveying. The entrance standard to the above is Leaving Certificate or Department of Education Elementary Technical Certificate in Mechanical Engineering. The following subjects are offered at advanced level: Pure Mathematics, Applied Mathematics, Physics and Technical Drawing. The entrance standard to the above is Leaving Certificate with Honours or G.C.E. Ordinary level passes in the appropriate subjects.
Fee per annum:
£10, 1s., for four subjects,
£1 10s. for each additional subject.

E/41. Graduate Courses in Engineering
A 4/5-year course to prepare students for the examinations of the following Professional Engineering Institutions:
(1) Inst. of Civil Eng. of Ireland.
(2) Inst. of Civil Eng.
(3) Inst. of Mechanical Eng.
(4) Inst. of Production Eng.
(5) Inst. of Structural Eng.
(6) Inst. of Heating & Ventilating Eng.
(7) Royal Aeronautical Society.
Before entry to these courses applicants must meet the requirements of the appropriate Institution for Student Membership.
Fee €10 per annum.

E/42. Certificate Engineering Technician Course
A 5/6-year course to prepare students for the Certificate Examination in Mechanical Engineering of the Department of Education as follows:
Set the end of the Second year—Elementary Stage.
Set the end of the Third year—Intermediate Stage.
Set the end of the Fourth year—Advanced Stage.
Set the end of the Fifth/Sixth year—Higher Technical Stage.
The entrance requirements are Department of Education Intermediate Certificate or Day Group Certificate with passes in Mathematics, English and a Science Subject.
Fee €10 per annum.

E/42C, Mechanical Engineering Technicians
This is a three-year evening course to prepare students for the Part I and Part II examinations of the City & Guilds of London—Mechanical Engineering Technicians (293).
It is a supplement to Course D/42D and may also be attended by students unable to obtain day release.
Fee £10 per annum.

E/42D, Heating & Ventilating Technicians
This is a three-year evening course to prepare students for the Part I and Part II examinations of the City & Guilds of London Institute—Heating, Ventilating and Airconditioning Technicians (339).
It is a supplement to Course D/42C and may also be attended by students unable to obtain day release.
Fee £10 per annum.

E/44B. Jig & Tool Design Technology Course
A two-year course for those who have completed Course E/42C.
Students are prepared for the Full Technological Certificate Examination of the City & Guilds of London in mechanical engineering (293).
Fee £10 per annum.

E/46. Aeronautical Engineering Technicians
This course provides instruction for aircraft maintenance engineers who desire to take the Licence Examinations of the Department of Transport and Power.
Fee £10 per annum.

E/47. Diesel Maintenance
This is a two-year course providing instruction in the theory and practice of diesel maintenance.
Fee £7 10s. 0d. per annum.

E/48. Welding Technology Course
This course is designed to meet the requirements of those engaged in design or supervision of projects involving the use of welding. The course of lectures will be based on the following syllabus.

1. Welding Metallurgy
Properties of materials. Effects of heat on the mechanical properties of metals. Concept of crystal grains, grain boundaries, and effects of temperature in promoting grain growth. Work hardening. The effect on steel of fast cooling rates, Heat treatment, Effects of preheating and post heating, Consideration of thermal expansion and contraction as causing internal stresses and/or distortion in welded structures.

2. Welding Processes

3. Inspection & Testing of Welding Structures
The function of inspection. Survey of inspection procedure with reference to assembly, preparation, technique procedure.
and related mechanical tests. Use of penetrant methods of weld examination. Magnetic crack detection, principles and techniques, X and gamma radiography, principles, equipment, Ultrasonics; equipment used, and application to weld examination. Weld Inspection on site. 

Note: This part of the course will include practical demonstration.

4. Design for Welding

Site attendance at the College for three evenings per annum.

Fee £49.

E/49 Automobile Engineering Course
This is a five-year evening course requiring attendance at the College for three evenings (9 hours) each week (26 weeks each year). The course prepares students for the Associate Membership Examinations of the Institute of the Motor Industry (Inc.), the Institute of Road Transport Engineers and the Institute of Automobile Assessors.

Section A of the Associate Membership Examination of the above Institutes is taken at the end of the second year. At this stage students specialise and take relevant subjects to prepare themselves for the Section B examinations of the above Institutes in addition to which they may prepare themselves for the I.M.I. "Part D" Scheme Examinations. The Section B examinations are usually taken at the end of the fourth year and Section C examinations at the end of the fifth year.

Entrance Requirements
Secondary Leaving Certificate or equivalent certificate.

Course of Study
The subjects studied are as follows:

First Year
- Electricity, Science and Mathematics
- Engineering Drawing, Motor Engineering—Theory, Motor Engineering—Practice

Second Year
- Electricity, Science and Mathematics
- Engineering Drawing, Motor Engineering—Theory, Motor Engineering—Practice

Third Year
- Motor Engineering—Theory, Motor Engineering—Practice, Management Practice including Method Study, Motor Trade Practice and Law, Workshop Organisation and Administration or Parts Merchandising, Parts Department Administration and Organisation.

Fourth Year
- Motor Engineering—Theory, Motor Engineering—Practice, Management Practice including Method Study, Motor Trade Practice and Law, Workshop Organisation and Administration, or Parts Merchandising, Parts Department Administration and Organisation.

Fifth Year
- Management Practice including Method Study, Motor Trade Practice and Law, Workshop Organisation and Administration or Parts Department Administration and Organisation.

Fee £7 10s. 0d. per annum.

E/50 Refrigeration Engineering Technicians
This is a two-year course for Technicians employed in the refrigeration engineering industry. Suitable students are prepared for the City & Guilds of London Institute examinations in Science and Technology of Refrigeration No. 73. The subjects of instruction are: Basic Thermodynamics, Refrigeration Processes and Refrigeration Machinery.

Fee £10 per annum.

E/51 Printing Technology
This is a continuation of the Day Course in Printing Technology constituting the Third Year of the course.

Fee £7 10s. 0d. per annum.

E/52 Training for Administrative Staff
This course is a continuation of the Day Course for Administrative Staff. (See Course D/82.)

Fee £10 per annum.

E/53 Applied Printing
A 2-year course designed to provide those engaged in the Clerical and Administrative side of Printing with a general knowledge of the crafts involved in modern printing and of the materials and appliances used.

Students who complete the course may enter the Preliminary Technical Knowledge examination of the British Federation of Master Printers. A 2-year course designed to prepare students for the examinations of the National Association of Paper Merchants and the City and Guilds of London Institute.

Fee £5 per annum.

E/84A Costing (Printing)
A two-year course designed to prepare students for the examination of the British Federation of Master Printers.

Fee £5 per annum.

E/84B Estimating (Printing)
A two-year course designed to prepare students for the examination of the British Federation of Master Printers.

Fee £5 per annum.

E/85 Paper Technology and Marketing
A 2-year course for employees of Paper Mills and Paper Merchants' and Printers' employees engaged in the handling of paper transactions. Students are prepared for the examinations of the National Association of Paper Merchants and the City and Guilds of London Institute.

Fee £5 per annum.

E/86 Typographic Design and Layout Course A—This course shall normally occupy four years and may be taken by means of either day or evening classes. Its aim is to prepare compositor students for the examinations of the Department of Education and the City and Guilds of London Institute.

Course B—A two-year course for students of Preliminary Technical Knowledge examination to be accepted as a candidate for the following:
(a) Training for Administrative Staff.
(b) Estimating and Costing examination of the British Federation of Master Printers.

Fee £5 per annum.
Technological & Technician Courses
(Evening)

Are and those engaged in publishing houses, design studios, advertising agencies and printing houses. Students will be expected to have at least an elementary knowledge of Typography and are consequently advised to take the Applied Printing course as well.

Fee £5 per annum.

E/89. Basic Diploma Course in Advertising
The part of the above course of the College of Commerce, Rathmines, dealing with Printing and Reproduction methods, is now being taken in the School of Printing.

E/90. Diploma Course in Advertising
The subjects: Printing and Reproduction Methods, Copywriting, Design and Layout of the above course are now being taken in the School of Printing.
TRADE COURSES (DAY)

Trade Courses
These courses are for apprentices and young journeymen in the Building, Vehicle Building, Furniture, Engineering and Printing, Bookbinding and Process Engraving Trades. Every facility is given to students who wish to enter for the Trade Certificate Examinations of the Department of Education or of the City and Guilds of London Institute. These examinations are conducted in the College at the end of the session. The courses are based on the examination syllabuses of these bodies. Generally, students take the Junior Stage of the Trade Certificate Examinations of the Department of Education after two years' instruction and the Senior Stage after a further two years. Fee £5 per annum except where otherwise stated.

Building Trades
Part-time courses involving one-day instruction per week in the practice and theory of the trade. These are normally of 4 years' duration (5 years in the case of Carpentry and Joinery, and Vehicle Building). Woodcutting machinists, on completion of the second year course, transfer to the third year of the evening course. The following courses are provided: D/101, Bricklaying, D/102, Furniture Trades, D/103, Carpentry and Joinery, D/104, Coach painting, D/105, Painting and Decorating, D/106, Plumbing, D/107, Vehicle Building, D/108, Woodcutting Machinists' Work, D/109, Vehicle Trimming.

D/110, Wood Finishing, D/111, Upholstery.

Engineering Trades
D/46A, Engineering Apprentices' Course This is a four-year industry-based Sandwich Course for Mechanical Engineering Apprentices who are released by their employers for 13 week blocks each year. The first and fourth years attend the College from January to March and the second and third years attend from September to December.

Entrance Requirements
(a) Day Group Certificate of Department of Education with first class passes in Mathematics, Metalwork and Mechanical Drawing, or Secondary Schools Intermediate Certificate of Department of Education.
(b) Applicants must be serving an apprenticeship to one of the Mechanical Engineering Trades.

Course of Study
First Year

Second Year
Third Year

Fourth Year

Students are expected to attend the College full time for a period of 11 weeks according to the following schedule:
Block I—2nd October to 15th December inclusive.
Block II—16th January to 29th March inclusive.
Block III—22nd April to 5th July inclusive, Students will normally be informed when to attend the College.

D/142A, Automobile Engineering Apprentices
A five-year Day and Evening Course requiring attendance for one full day (7 hours) and two evenings (6 hours) per week.

D/142B, Automobile Engineering (Craft)
A five-year Course requiring attendance for one half-day (3 hours) and at least two evenings (6 hours) per week. By taking extra classes in specified subjects students may prepare themselves for the Motor Engineering Technological Certificate Examinations of the Department of Education in Fitting and Turning.

D/143, Gas + Electric Welding
A five-year Course requiring attendance on one day per week. This Course meets the requirements of the Irish Welding Association qualification tests for Welders.

D/149 Metal Plate Work
A four-year Course, requiring attendance on one day per week, for apprentices who have completed the first year of Course D/468.

D/150, Structural Steel & Boilermakers
A four-year Course requiring attendance on one day and one evening per week.

D/151, Heating + Ventilating Engineering Craft Practice
A four-year Course requiring attendance on one day per week.

D/168, Motor Vehicle Mechanics' Work
(City & Guilds of London Inst.)
A three-year Course requiring attendance on one day (7 hours) and at least 2 evenings (6 hours) per week. Students take the City and Guilds of London Institute Motor Mechanics' Work Examination at the end of the third year.

D/169, Motor Vehicle Electricians' Work
(City & Guilds of London Inst.)
A three-year Course requiring attendance on one day (7 hours) and at least 2 evenings per week. The first year of the Course is the same as Course D/168. At the end of the third year, students take the City and Guilds Motor Vehicle Electricians' examination.

Printing Trades
D/183, Letterpress Machine Printing
(Block release course.)
Consecutive courses of 13 weeks' duration for first and second year apprentices and courses of 6 weeks' duration for third and fourth year apprentices. During each course the apprentices attending complete a stage of the Department of Education's syllabi for the Junior and Senior Trade Certificate Examinations in Compositor's Work. An examination in each stage is set by the Department of Education at the conclusion of each course.

D/184, Process Engraving
A 4-year part-time course, comprising Junior and Senior stages.

D/185, Linotype, Intertype and Teletyping
Course A — A complete course of 12 weeks' duration of 30 hours per week. Course B — A refresher course for operators of 6 weeks' duration for 30 hours per week. Fee £15 per annum.

D/188, Stereotyping and Electrotyping
A 4-year part-time course for first, second, third and fourth year apprentices of 4½ hours day Instruction.

D/190, Compositors' Work
(Block release Course)
Consecutive courses of 13 weeks' duration for first and second year apprentices and courses of 6 weeks' duration for third and fourth year apprentices. During each course the apprentices attending complete a stage of the Department of Education's syllabi for the Junior and Senior Trade Certificate Examinations in Compositors' Work. An examination in each stage is set by the Department of Education at the conclusion of each course.

D/191, Bookbinding
A Block Release course for first, second,
third and fourth year apprentices, involving day and evening instruction in the practice and theory of the trade. Students are prepared for the examinations of the Department of Education.

D/192. Lithography and Photo-Lithography (Block release Course.) Consecutive courses of 13 weeks' duration for first and second year apprentices and courses of six weeks' duration for third and fourth year apprentices. During each course the apprentices attending complete a stage of the Department of Education's syllabi for the Junior and Senior Trade Certificates Examination in Compositor's Work. An examination in each stage is set by the Department of Education at the conclusion of each course.

D/195. Film Make-up and Keyboarding Courses of 13 weeks' duration for trainees from Industry.

Trade Courses (Evening)
TRADE COURSES (EVENING)

Fee £4 10s. Od. per annum.

Evening Courses for apprentices are provided for all courses listed in the preceding section, and in Plastering, Patternmaking, Foundry Work, Brassfinishing, Boilermaking, Smith and Art Ironwork, Structural Steelwork, Monotype Casting and Monotype Keyboard, Linotype and Intertype Operating and Teletypsetting.

Students are prepared for appropriate examinations conducted by the Department of Education and the City & Guilds of London Institute.

Physical Education
Evening courses in Physical Education are provided for men students. Classes in Physical Education are provided as components of the whole-time day courses. Athletic and sporting activities for whole-time students are organised by the several student bodies in the College with the guidance of a physical education expert. Sports fields are provided for the purpose at Terenure and Whitehall.

Fee £4 per annum

Examinations
At the end of each session internal examinations are held in connection with the courses. Promotion of students depends on success in these examinations. Students who have not the required attendances at the courses will not be permitted to take these examinations. Students are required to acquaint themselves with the examination and promotion regulations of the course which they take.

External Examinations
The courses prepare students for the Examinations of the following bodies:

1. Department of Education
   (a) Technological Certificate Examinations in:
      (i) Building.
      (ii) Mechanical Engineering.
      (iii) Motor Car Engineering.
      (iv) Mathematics.
   (b) Trade Certificate Examinations in:
      (i) Bricklaying and Masonry.
      (ii) Boilermakers' Work.
      (iii) Brass Finishing.
      (iv) Cabinetmaking.
      (v) Carpentry and Joinery.
      (vi) Compositors' Work.
      (vii) Letterpress Machine Work.
      (viii) Lithography & Photo Lithography.
      (ix) Bookbinding.
      (x) Metalplate Work.
      (xi) Motor Car Engineering.
      (xii) Painting and Decorating.
      (xiii) Plasterers' Work.
      (xiv) Plumbing.
      (xv) Fitters' Work.
      (xvi) Turners' Work.

2. Professional Institutions
   (i) Building Surveyors' Institute,
   (ii) Institution of Civil Engineers of Ireland,
   (iii) Institution of Civil Engineers,
(iv) Institution of Heating, Ventilating and Air Conditioning Engineers.
(v) Institution of Mechanical Engineers.
(vi) Institution of Municipal Engineers.
(vii) Institution of Structural Engineers.
(viii) The Institute of Building.
(ix) Institute of Marine Engineers.
(x) Institute of Quantity Surveyors.
(xi) Royal Aeronautical Society.
(xii) Royal Institute of Architects of Ireland.
(xiii) Royal Institution of Chartered Surveyors.
(xiv) Town Planning Institute.

3. Other Bodies
(i) Board of Trade (Certification for Marine Engineers).
(ii) British Federation of Master Printers.
(iii) City and Guilds of London Institute.
(iv) Department of Industry and Commerce (Licence in Aeronautical Engineering).
(v) Institute of Clerks of Works in Ireland.
(vi) Institute of the Motor Industry.
(vii) National Association of Paper Merchants.
(viii) Associated Examining Board (G.C.E.).

Note
In connection with the examinations of professional and other external bodies, students are advised to note the following:
1. Admission to a course in the College may not of itself entitle students to sit for examinations of external bodies. Students are themselves responsible for ensuring that they satisfy all the requirements of the examining body concerned.
2. Students are expected to acquaint themselves with the current regulations for the examinations which they propose to take.
3. Students must make all the necessary applications and provide all documents that may be required. In this connection any documents and certification (e.g. statements of attendance, etc.) required from the College authorities should be applied for at the earliest opportunity.
4. The College Authorities will give the fullest assistance and advice in the above matters.