1984

Full-Time Courses: 1984-85

City of Dublin Vocational Education Committee

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City of Dublin Vocational Education Committee
Dublin Institute of Technology

College of Technology
Kevin Street

Full-time Courses 1984/85
FULLTIME COURSES 1984-85

COISTE GAIRM-OIDEACHAIS
CHATHAIR ÁTHA CLIATH

INSTITIÚID TEICNEOLAÍOCHTA
BHAILÉ ÁTHA CLIATH

COLÁISTE
TEICNEOLAÍOCHTA

SRÁID CHAOIMHÍN
BAILE ÁTHA CLIATH 8

CITY OF DUBLIN VOCATIONAL
EDUCATION COMMITTEE

DUBLIN INSTITUTE
OF TECHNOLOGY

COLLEGE OF
TECHNOLOGY

KEVIN STREET
DUBLIN 8


Dublin Institute of Technology Admissions Office:
14 Upper Mount Street, Dublin 2 Phone 766584/762652

City of Dublin Vocational Education Committee
Administrative Offices: Town Hall, Ballsbridge Dublin 4, Phone 680614

Chief Executive Officer: W. J. Arundel, B.Comm, H.Dip.
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GENERAL INFORMATION

This booklet provides information about the wholetime courses offered by the College of Technology, Kevin Street, Dublin 8.

ENTRY QUALIFICATIONS

(a) For Diploma Course in Applied Sciences: Grade C or higher in two subjects taken at Higher Level (one of which must be in Mathematics, Applied Mathematics or a Science Subject i.e. Physics, Chemistry, Physics with Chemistry, Biology, Applied Mathematics or Mechanics) in the Leaving Certificate Examination.

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

(b) For the Honours Diploma Course in Electrical 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 (English and Mathematics must be among the subjects passed in all cases).

(c) For the B.Sc. (Human Nutrition), Leaving Certificate with passes in at least six subjects including English and Mathematics, 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 Mathematics (or Applied Mathematics), 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 Colleges which specify a pass in the Leaving Certificate Examination as the entrance requirement. Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education will be an acceptable equivalent.

(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 Selection Tests, and admission will be dependent on satisfactory results in these tests and/or on satisfactory interviews.

(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.

Generally demand greatly exceeds places and qualifications well above the minimum qualifications will be required.

**SELECTION PROCEDURES**

Applicants are placed in order of merit in accordance with the following points system allocated to the best results in six subjects (including Mathematics and English) obtained in one or more school leaving examinations having regard to the relevant course entry requirements. In the case of some courses, applicants may be called for interview. The results of interviews may be combined where appropriate with the total points scored in the best six subjects referred to above.

**POINTS FOR DIFFERENT GRADES**

<table>
<thead>
<tr>
<th>LEAVING CERTIFICATE</th>
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<tbody>
<tr>
<td>Points</td>
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<tr>
<td>--------</td>
</tr>
<tr>
<td>9</td>
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<td>7</td>
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<td>6</td>
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<td>3</td>
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<tr>
<td>2</td>
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<tr>
<td>1</td>
</tr>
</tbody>
</table>

**Note:** Special weighting factors are effected on these points for some courses. Details of the weightings are provided later in this booklet.

**Special Cases**

The following types of applicants are treated as special cases and are processed separately from the main stream of candidates.

**(a) Trade Students**

Students holding the Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or a Science Subject satisfy the minimum entrance requirements for courses in the College which specify a pass in five subjects in the Leaving Certificate Examination as the entrance requirement. Students holding this Certificate with three endorsements in academic subjects are eligible for consideration for entry into related professional/degree level courses provided that they also meet any special entry requirements (e.g. Higher Level Mathematics for Engineering courses). 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 is an acceptable equivalent.
(b) Mature Students
A mature student who is at least 24 years of age or over at the time of enrolment and who does not meet the normal minimum admission requirements may be considered for admission to appropriate courses after attending in person for interview and satisfying the College Authorities as to his/her ability to benefit from the proposed course. Such applicants may be required to sit and pass an entrance test or a suitability test before admission.

(c) Holders of N.C.E.A. National Certificates and Diplomas or Similar Level Awards
Applicants should request the College where they have studied for these awards to forward in confidence to the Admissions Office a full transcript of results (including subjects studied and grades obtained) not later than July 31st. The application will not be processed until this has been received. Only candidates with a very high level of attainments have prospects of gaining admission because of the limited number of places available.

(d) Applicants Seeking Exemptions from one or more years of a Course
As in (c) such applicants should ask their former College to forward in confidence to the Admissions Office a full transcript of previous attainments which it is claimed will justify the exemptions sought. The application will not be processed until this is received.

(e) Overseas Students
Overseas students seeking admission to the College should apply not later than February 1st using the standard application forms available on request. When completed this should be forwarded with documentary evidence of qualifications in English (translations should be certified by an appropriate authority) showing subjects passed, levels and grades obtained.

METHOD OF APPLICATION

DEGREE LEVEL COURSES IN C.A.O. SCHEME
The following degree level courses are in the CAO scheme. Graduates of these courses are awarded DIT Diplomas. They are also eligible for degree awards of the University of Dublin (Trinity College).

<table>
<thead>
<tr>
<th>College Code</th>
<th>CAO Code</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEE</td>
<td>FT 21</td>
<td>Honours Diploma in Electrical/Electronic Engineering</td>
</tr>
<tr>
<td>WSAD</td>
<td>FT 22</td>
<td>Diploma in Applied Sciences</td>
</tr>
<tr>
<td>*WBD</td>
<td>FT 23</td>
<td>B.Sc. (Human Nutrition)</td>
</tr>
</tbody>
</table>

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

Applicants for the above degree level courses in the CAO scheme should apply directly to:

The Central Applications Office,
Tower House,
Eglinton Street,
Galway.
It is essential that applicants adhere to the procedures described in the CAO Handbook.

CAO Closing Date: Irish Applicants – 1st February 1984 (5.30 p.m.)

Application Fees:
- Irish Applicants: ........................................ IRE16.00
- Late Application Fee: .................................... IRE40.00

Note:
(i) There will be a period of grace for the receipt of Irish applications during which such applications may be accepted at a fee of IRE24.00. This period will last from February 2nd to March 15th inclusive.

(ii) 'Re-applications' will not be accepted in respect of College degree level courses in CAO scheme.

(iii) Applicants should note some specific exclusions from the CAO scheme on page 13 of the CAO Handbook e.g. mature and overseas students, together with students applying for the second or subsequent years of a degree course. These should apply direct to the Dublin Institute of Technology.

TECHNICIAN AND OTHER WHOLETIME COURSES

Application for admission to technician and other wholetime courses listed below, which are not in the CAO system should be made to the Dublin Institute of Technology through the standard form available on request. Documentary evidence of qualifications, if available, should accompany applications.

<table>
<thead>
<tr>
<th>College Course Code</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WML</td>
<td>Certificate in Medical Laboratory Sciences</td>
</tr>
<tr>
<td>WMT</td>
<td>Technician Diploma in Computer Science</td>
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<tr>
<td>WAS</td>
<td>Technician Diploma in Applied Science</td>
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<tr>
<td>WSO</td>
<td>Diploma in Ophthalmic Optics</td>
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<tr>
<td>WBT</td>
<td>Diploma in Bakery Production and Management</td>
</tr>
<tr>
<td>WEET</td>
<td>Technician Engineering Diploma/Electrical Engineering</td>
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<tr>
<td>WRTT</td>
<td>Technician Engineering Diploma/Telecommunications &amp; Electronics</td>
</tr>
<tr>
<td>WRS</td>
<td>Technician Diploma in Electronic Engineering</td>
</tr>
<tr>
<td>WRCE</td>
<td>Technician Certificate in Electronics</td>
</tr>
</tbody>
</table>

Applicants for any of the above courses, including special cases, should apply by completing the standard application form available on request from:

The Admissions Office,
Dublin Institute of Technology,
14 Upper Mount Street,
Dublin 2.

Completed application forms should be forwarded to DIT by Wednesday, 1st February, 1984. The final date for receipt of completed application forms will be Thursday, 15th March, 1984.
GRANTS AND SCHOLARSHIPS

(a) Local Authority Grants
Students who register for the professional or degree level courses conducted by the College are eligible to apply to the Local Authority, where their parents or guardians normally reside, for a Higher Education Grant. Information on eligibility conditions and application forms are available from the appropriate Local Authority (County Council or Corporation).

(b) VEC Scholarships
Students who register for technician or sub degree courses leading to Certificate or Diploma awards are eligible to apply to the Vocational Education Committee, of the area where their parents or guardians normally reside, for a VEC Scholarship. Information on eligibility conditions and application forms are available from the appropriate Vocational Education Committee.

FEES – SESSION 1983/84

1) B.Sc. (Human Nutrition) WBD £600
2) Honours Diploma in Electrical/ Electronic Engineering SEE £450
3) Wholetime Diploma Courses WSAD; WSO £350
4) Wholetime Technician Courses WML; WAS; WMT; WEET; WRTT, WRS; WRCE; WBT £220
5) *Overseas Students (non-EEC Countries) £1,200
6) Late Registration Fee £30

*Students who are enrolled in Colleges through Irish Government Agencies may be admitted on paying the same fees as Irish students. The fees quoted above refer to the first year of courses only. Fees are payable on enrolment and are not refundable except where a class or course does not form. They must be paid before commencing attendance at classes.

ALL FEES QUOTED ARE SUBJECT TO REVISION.

GENERAL REGULATIONS
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.
Ref. SEE

HONOURS DIPLOMA IN ELECTRICAL/ELECTRONIC ENGINEERING

C.A.O. Code

FT 21

Entrance Requirements

This is a four year wholetime course designed for the education of electrical/electronic engineers to an honours degree level.

Passes in six subjects in the Irish Leaving Certificate including English and Mathematics, 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 or such qualifications as the College may deem equivalent.

Extra points are awarded to Grade A to C on the higher Leaving Certificate papers in Mathematics and the Science Subjects listed above.

Note: It must be emphasised that the above are the minimum stipulated entry requirements. In practice Grade C or higher on four to six higher level papers are required to gain entry to this course.

The entrance requirements for the 1985/86 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.

COURSE OF STUDY


Second Year: Mathematics, Physics, Field and Circuit Theory, Signal and System Theory Electronics, Computer Systems, Electrical Machines, Measurements, Instrumentation, Business and Management Studies, Technical French or Technical German.

Third Year: The core subjects for the third year of the course are as follows:—

Mathematics, Circuit Theory, Field Theory, Business and Management Studies, Technical French or Technical German.

In addition students will study the particular subjects relevant to the specialised option they have chosen, as detailed below.

Electrical Power Option
Control Systems and Instrumentation Option
Electronics, Signal and System Theory, Control Systems.

Electronics, Communications and Computer Option
Electronics, Signal and System Theory, Computer Systems, Communications Engineering.

Fourth Year:
Mathematics, Business and Management Studies are common. The other subjects relevant to each specialised option are detailed below.

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

Control Systems and Instrumentation Option
Circuit Theory, Electronics, Control Systems, and an Engineering Project.

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

SPECIAL FEATURES
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. There is a moderate degree of specialization in one of the following fields:—

Electrical Power
Control Systems and Instrumentation
Electronics
Communications and Computers

In addition, all students must complete an Engineering Project in their final year.

AWARDS
Graduates of this course are awarded the:—
Diploma in Electrical/Electronic Engineering of the Dublin Institute of Technology

They are also eligible for the award of:—
B.Sc. (Electrical/Electronic Engineering) of the University of Dublin (Trinity College)

Both the Diploma and Degree may be awarded with honours classification.

The Diploma has been recognised by The Institution of Engineers of Ireland as fulfilling the educational requirements for ordinary membership.
CAREER OPPORTUNITIES
Graduates of the course take up employment as engineers in a wide variety of specialised fields. Employers include, An Post, An Bord Telecom, E.S.B., Department of Defence, R.T.E., B.B.C., C.I.E., N.E.T., Guinness, Irish Cement, Roadstone Holdings Ltd. and various other manufacturing industries. In recent years an increasing number are being employed by computer firms. About twenty per cent of the graduates engage in further study, usually research based, and obtain higher degrees, M.Sc. or Ph.D. Some of these graduates subsequently work in Electrical Engineering education.

Department in Charge
Electrical Engineering.

Ref. WSAD
DIPLOMA IN APPLIED SCIENCES

A four year wholetime course leading to a Diploma in Applied Sciences of the Dublin Institute of Technology, for those wishing to combine the study of two areas of science with emphasis on applied aspects. The suitability of the course for industrial and related activities is enhanced by studies in management and a modern continental language.

Entrance Requirements
Passes in six subjects in the Irish Leaving Certificate, including English and Mathematics, 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, Applied Mathematics or Mechanics, or such qualifications 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.

COURSE OF STUDY

First Year:
Mathematics, Physics, Chemistry, Management Studies, Technical French or Technical German.

Second Year:
Students select two subjects from Mathematics, Physics and Chemistry and in addition continue their studies in Management Studies and Technical French or Technical German. Students selecting Physics and Chemistry will also be required to take Ancillary Mathematics in second year.

Third Year:
Fourth Year:

SPECIAL FEATURES
This diploma will be awarded in terms of the options studied for the final three years of the course, as follows:—

Physics and Chemistry
Physics and Mathematics
Chemistry and Mathematics

Either of the Physics options is recognised as acceptable for associate membership of the Institute of Physics. In the final year a research/development project is undertaken by each student in one of the subjects in the option he has chosen. In the past a number of these projects have led to further post-graduate research while others have led to products with industrial applications.

AWARDS
Graduates of this course are awarded the:

Diploma in Applied Sciences of the Dublin Institute of Technology

They are also eligible for the award of the:
B.Sc. (Applied Sciences) of the University of Dublin

Both the Diploma and Degree may be awarded with honours classification.

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 and telecommunications. Some have embarked on careers in education.

DIPLOMA IN HUMAN NUTRITION
This is a four year wholetime course 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 sciences of nutrition and dietetics and its application to human health and well-being, both at the individual and community level.
Entrance Requirements

Passes in six subjects in the Irish Leaving Certificate including English and Mathematics, with Grade C or higher in three subjects on higher level papers, one of which must be Chemistry, or such qualifications 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.

COURSE OF STUDY

First Year: Mathematics, Biology, Chemistry, Physics, Food Studies, Communications Studies, Technical French.


Third Year: Diet Therapy, Dietetics, Medicine, Applied Nutrition, Food Science, Catering Administration, Management Studies, Technical French.

Fourth Year: Diet Therapy, Applied Nutrition, Dietetics.

SPECIAL FEATURES

Students are required to take a six weeks catering experience course at the end of the second academic year. Final year students must serve a seven month internship in the Dietetic Department of a recognised teaching hospital, also a period of practical experience in the Administration of food sciences and other professional experience (e.g. dietary survey work etc.).

AWARDS

Graduates of this course are awarded the:—
Diploma in Human Nutrition of the Dublin Institute of Technology.

They are also eligible for the award of:—
B.Sc. (Human Nutrition) Degree of the University of Dublin (Trinity College).

Both the Diploma and Degree may be awarded with Honours classification.

CAREER OPPORTUNITIES

Graduates are eligible to apply for posts as Nutritionists/Dieticians in hospitals, community care organisations and research areas. Career opportunities also exist in the food industry and graduates may seek appointments overseas including third world countries. They may also work on research projects leading to post-graduate qualifications.

Department in Charge

Biological Sciences.
CERTIFICATE IN MEDICAL LABORATORY SCIENCES

This is a three year wholetime course which 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 register as student members of the Institute of Medical Laboratory Sciences.

Entrance Requirements

Irish Leaving Certificate in six subjects including English, Mathematics and an approved science subject i.e. Physics, Chemistry, Biology or Physics with Chemistry and a minimum of Grade C on Ordinary level Mathematics or such qualifications as the college may deem equivalent.

Weighting Factors Applied

<table>
<thead>
<tr>
<th>Subject</th>
<th>Weighting</th>
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<tbody>
<tr>
<td>Mathematics, Physics, Chemistry</td>
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</tr>
<tr>
<td>English</td>
<td>1.3</td>
</tr>
</tbody>
</table>

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.

COURSE OF STUDY

First Year: Medical Laboratory Science, Biology, Chemistry, Physics, Mathematics, Technical German.

Second Year: Medical Laboratory Science, Physiology, Chemistry/Biochemistry, Physics, Statistics and Data Processing, Technical German.

Third Year: Medical Laboratory Sciences.

SPECIAL FEATURES

The certificate is a requirement for entry to the Diploma course in Medical Laboratory Sciences. Holders of the Certificate 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 short re-orientation period before sitting the sessional examination.

AWARDS

Graduates of this course are awarded the:—

Certificate in Medical Laboratory Sciences of the Dublin Institute of Technology with credit or distinction as appropriate.
CAREER OPPORTUNITIES
The Certificate is the required qualification for basic grade technician posts 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.

Department in Charge

Biological Sciences.

Ref. WMT

TECHNICIAN DIPLOMA IN COMPUTER SCIENCE

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

Entrance Requirements:
Passes in five subjects in the Irish Leaving Certificate including English and Mathematics, with a minimum of Grade B on Ordinary Level Mathematics or such qualifications as the college may deem equivalent.

Weighting Factors Applied
Mathematics 1.5
English, Physics, Mechanics or Applied Mathematics 1.3

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.

COURSE OF STUDY


SPECIAL FEATURES
A wide spread of programming languages are taught. Programming assignments are given throughout each year of the course. Final year students must undertake a substantial and practical project involving detailed knowledge of one or more subject areas of the course. The course is predominantly software orientated.

AWARDS
Graduates of this course are awarded the:
Technician Diploma in Computer Science.

CAREER OPPORTUNITIES
The course is designed to train scientific programmers, who should progress, within a few years, to the position of senior programmer. This relatively new course has produced two graduate groups to date who have readily found employment in a wide range of scientific, educational, commercial and industrial establishments.

Department in Charge: Mathematics.

TECHNICIAN DIPLOMA IN APPLIED SCIENCE
This is a three year wholetime course 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.

After the first year this course offers three options:
Biology, Chemistry and Physics.

Entrance Requirements
Passes in five subjects in the Irish Leaving Certificate Examination including English and Mathematics or such qualifications 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 higher standard is necessary in practice to gain a place.

COURSE OF STUDY
Physics, Chemistry, Biology, Mathematics, Industrial Studies, Drawing Assignments, Technical French or Technical German.
Second Year: Industrial Studies, Technical French or Technical German are common papers regardless of the option in which students are specializing. The other subjects taken in Second year are detailed below in respect of each option available.


**Applied Biology Option:** Biological application of radio isotopes and applied Photography, Microbiology, Biochemistry, Biomedical Science and Environmental Science, Biometry.

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


**Applied Biology Option:** Microbiology, Biochemistry, Applied Biology.

**SPECIAL FEATURES**
An important element in the final year is the project which is an applied, laboratory-based problem in the major subject.

**AWARDS**
Graduates of this course are awarded the:—
Technician Diploma in Applied Science (Option Specified) of the Dublin Institute of Technology with 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.
Ref. WSO

DIPLOMA IN OPTHALMIC OPTICS

This is a four year wholetime 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.

Entrance Requirements

Irish Leaving Certificate in six subjects including English and Mathematics, with Grade C or higher in at least two higher level papers or such qualifications as the College may deem equivalent. Science subjects are an advantage and entry to the course is subject to interview in all cases.

Weighting Factors Applied

<table>
<thead>
<tr>
<th>Subject</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics and Physics</td>
<td>1.5</td>
</tr>
<tr>
<td>English, Chemistry, Physics with Chemistry, Biology</td>
<td>1.3</td>
</tr>
</tbody>
</table>

*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.*

COURSE OF STUDY

First Year: Mathematics, Chemistry, Physics, Biology, Technical German, Industrial Studies.


Third Year: Abnormal Ocular Conditions, Ophthalmic Practice, Physiology of Vision, Technical German, Industrial Studies and Law.

Fourth Year: Abnormal Ocular Conditions, Ophthalmic Practice, Contact Lenses, Environmental Optics, Technical German, Industrial and Related Studies.

SPECIAL FEATURES

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 will help to relate some of the theoretical aspects of the course to the clinical skills acquired.
AWARDS
Graduates of the Course are awarded the:
Diploma in Ophthalmic Optics of the Dublin Institute of Technology with honours classifications where appropriate.

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

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.

Department in Charge
Physics.

Ref. WBT
DIPLOMA IN BAKERY PRODUCTION AND MANAGEMENT
This is a three year wholetime course designed to meet the needs of students who wish to attain supervisory status or a position of responsibility in a large or small business where an understanding of the scientific principles involved, coupled with wide knowledge of the bakery industry is essential.

Entrance Requirements
Passes in five subjects in the Irish Leaving Certificate including English and Mathematics with a minimum of six months practical experience in a bakery, or City and Guilds Advanced Craft Certificate (No. 120 part 2), or such qualifications 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.

COURSE OF STUDY
First Year: Applied Science, Bakery Technology, Industrial Studies, Bread Production (Methods and Techniques), Flour Confectionery (Methods and Techniques).
Second Year: Applied Science, Bakery Technology, Industrial Studies, Bread Production (Methods and Techniques), Flour Confectionery (Production Methods and Techniques).
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.

SPECIAL FEATURES
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 & Organisation. The course covers Bakery Technology and Practice, Raw Materials and the testing of Raw Materials and an understanding of Bakery Equipment and Plants, as well as hygiene and microbiology. 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 will be encouraged to sit for the City and Guilds of London Institute Full Technological Certificate Examinations in addition to the Dublin Institute of Technology Diploma Examinations.

AWARDS
Graduates of this course are awarded the:
Diploma in Bakery Production and Management of the Dublin Institute of Technology with Credit or Distinction as appropriate.

CAREER OPPORTUNITIES
Graduates of the course are to be found in every facet of the bakery and allied industries and include Bakery General Managers, Production Managers, Technical Representatives, Test Bakers, Bakery Technologists, Product Development Technicians and Bakery Supervisors.

Department in Charge Bakery Unit.

Ref. WEET TECHNICIAN ENGINEERING DIPLOMA – ELECTRICAL ENGINEERING

A three year wholetime course leading to a Technician Engineering Diploma in the field of Electrical Engineering.

Entrance Requirements
Passes in five subjects in the Irish Leaving Certificate including English and Mathematics, with a minimum of Grade B in Ordinary level Mathematics or such qualifications as the College may deem equivalent.

Weighting Factors Applied
Mathematics 1.5
English, Physics, Mechanics or
Applied Mathematics 1.3
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.

COURSE OF STUDY


ELECTRICAL POWER OPTION


CONTROL & INSTRUMENTATION OPTION


SPECIAL FEATURES

In the final two years of the course students may specialize in Electrical Power or Control and Instrumentation which includes microprocessor applications. The course has been approved by the Institution 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 or Credit in the Diploma examination are eligible to apply for entry into the third year of our Electrical/Electronic Engineering Diploma Course (SEE).

AWARDS

Graduates of this course are awarded the:—
Technician Engineering Diploma – Electrical Engineering of the Dublin Institute of Technology with Credit or Distinction as appropriate.

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.

Department in Charge

Electrical Engineering.
Ref. WRTT

TECHNICIAN ENGINEERING DIPLOMA – TELECOMMUNICATIONS & ELECTRONICS

This is a three year wholtime course designed to provide a broad and thorough education for students intending to pursue careers as technician engineers in telecommunications and electronics.

Entrance Requirements:

Passes in five subjects in the Irish Leaving Certificate including English and Mathematics, with a minimum of Grade B on ordinary level mathematics or such qualifications as the College may deem equivalent.

Weighting Factors Applied

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<tr>
<td>Mathematics</td>
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<tr>
<td>English, Physics, Mechanics or Applied Mathematics</td>
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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.

COURSE OF STUDY

First Year:

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.

SPECIAL FEATURES

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

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

AWARDS

Graduates of this course are awarded the:—

Technician Engineering Diploma – Telecommunications & Electronics of the Dublin Institute of Technology with 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.

Department in Charge: Telecommunications Engineering.

Ref. WRS

TECHNICIAN DIPLOMA IN ELECTRONIC ENGINEERING

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

Entrance Requirements:

Passes in five subjects in the Irish Leaving Certificate including English and Mathematics, with a minimum of Grade C on ordinary level Mathematics or such qualifications as the College may deem equivalent.

Weighting Factors Applied

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*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.

COURSE OF STUDY

First Year: Mathematics, Mechanics, Physics, Electricity, Electronics, Computer Programming, Electrical Draughting, 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, Electric Circuits, Analogue and Digital Electronics, Microprocessor Systems, Communications Engineering, Industrial Studies, Technical French or Technical German.
SPECIAL FEATURES
The subject coverage of the course is broadly based, encompassing general 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.

AWARDS
Graduates of this course are awarded the:—
Technician Diploma in Electronic Engineering of the Dublin Institute of Technology with 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.

Ref. WRCE

TECHNICIAN CERTIFICATE IN ELECTRONICS

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

Entrance Requirements:
Passes in five subjects in the Irish Leaving Certificate including English and Mathematics or such qualifications 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 higher standard is necessary in practice to gain a place.

COURSE OF STUDY
First Year:

Second Year:
SPECIAL FEATURES
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.

AWARDS
Graduates of this course are awarded the:

Technician Certificate in Electronics of the Dublin Institute of Technology with 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.

Department in Charge: Telecommunications Engineering.
Location of College shown

1. College of Technology, Bolton Street, Dublin 1. Telephone 749913

2. College of Technology, Kevin Street, Dublin 8. Telephone 757541

3. Dublin College of Catering, and Hotel Management, Cathal Brugha Street, Dublin 1. Telephone 747886


5. College of Marketing and Design, Parnell House, Dublin 1. Telephone 742721

6. College of Music, Chatham Row, Dublin 2. Telephone 778903