

Thapar Institute of Engineering
and Technology (TIET):

International Engineering Programme



Trinity College Dublin

Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin



2 Years at TIET + 2 Years at Trinity

An Engineering Degree that's twice as Powerful

www.tcd.ie/study

Why Choose Trinity?



1st

Ireland's leading university

(QS World University Ranking 2025)



1st

1st in Ireland for employer reputation and alumni outcomes

(QS World Rankings for Graduate Employability 2022)



1-2

As a Trinity graduate you can remain in Ireland to work for 1 or 2 years, depending on your level of study



4th

Ireland is the world's 4th most competitive economy

(IMD 2024)



7th

Ireland has the 7th highest quality of life in the world

(UN Human Development Index 2023/24)



31st most international university in the world

(Times Higher Education Ranking 2024)



87th

Ranked 87th in the world

(QS World University Rankings 2025)



91st

91st in the world for graduate employability

(QS Graduate Employability Rankings 2022)



**TOP
100
UNIVERSITY**

Top 100 university in the world for 22 subjects

(QS Subject Rankings 2024)

2nd

Ireland is the 2nd safest
country in the world

(Global Peace Index 2024)

35%

35% of our
students are from
outside Ireland,
from 118 countries

500

Trinity has more than 500
industry partners, including
Meta, Google, IBM,
Pfizer and more

Trinity Top 100 University in the world for 22 Subjects

Accounting & Finance

Archaeology

Biological Sciences

Chemistry

Classics & Ancient History

Dentistry

Education

English Language and Literature* (21st in the world)

Geography

History

Law

Materials Science

Medicine

Modern Languages

Nursing* (26th in the world)

Performing Arts* (40th in the world)

Pharmacy and Pharmacology* (26th in the world)

Philosophy

Psychology

Politics & International Studies

Social Policy & Administration

Theology, Divinity and Religious Studies*

(49th in the world)



(QS World Rankings 2024)

*Ranked Top 50 in the QS World Rankings 2024

Trinity's Location

Why Ireland?

As a Trinity graduate you can remain in Ireland to work for 1 or 2 years, depending on level of study.

Find out more:

www.irishimmigration.ie/my-situation-has-changed-since-i-arrived-in-ireland/third-level-graduate-programme



Ireland is the 2nd safest country in the world
(Global Peace Index 2024)



Ireland is the world's 4th most competitive economy.
(IMD 2024)

People in Ireland are happy, ranking 17th in the world
(World Happiness Report 2024)

Dublin is multi-national. 1 in 5 people in the city are non-Irish nationals, according to the Council of Europe.

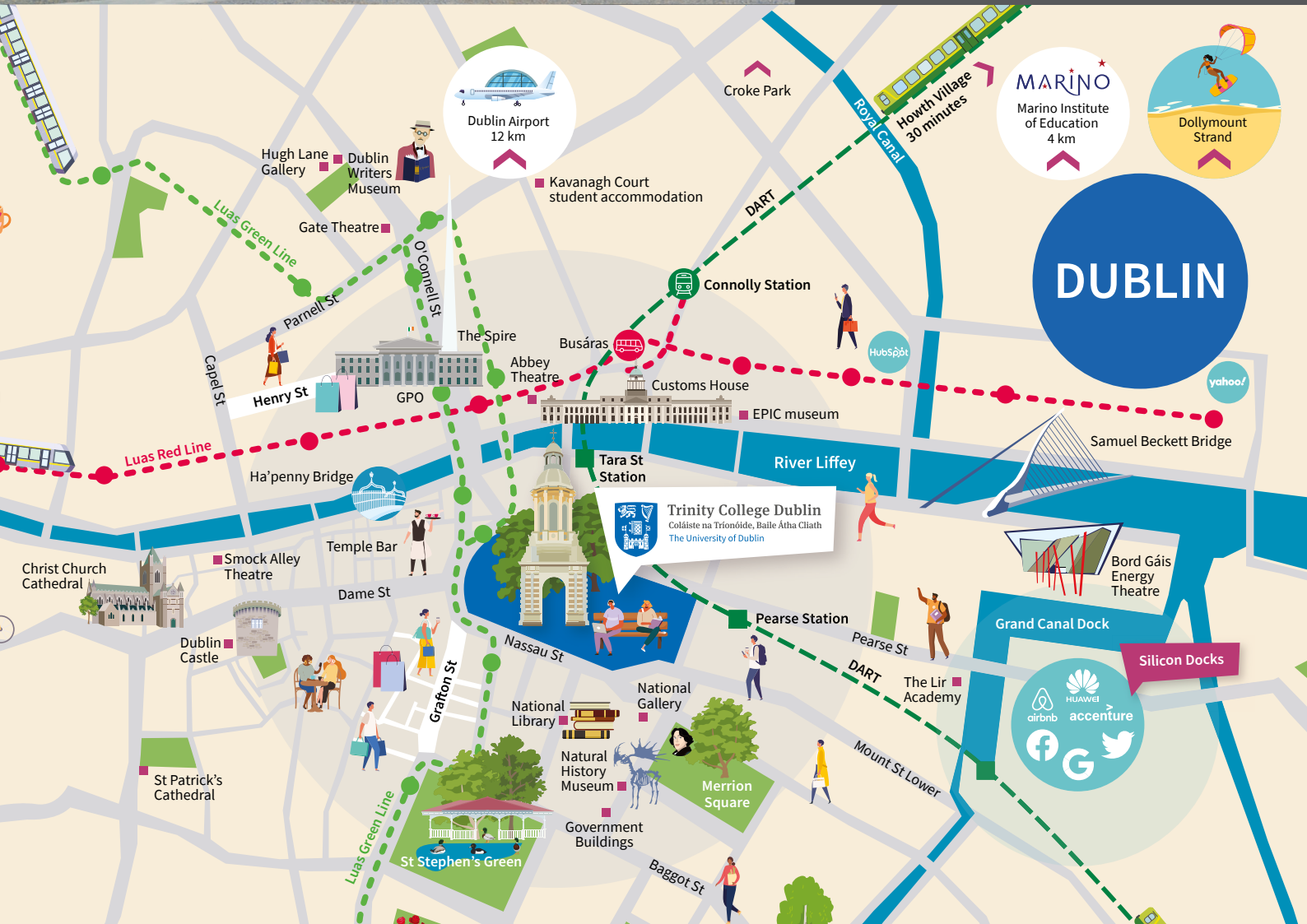
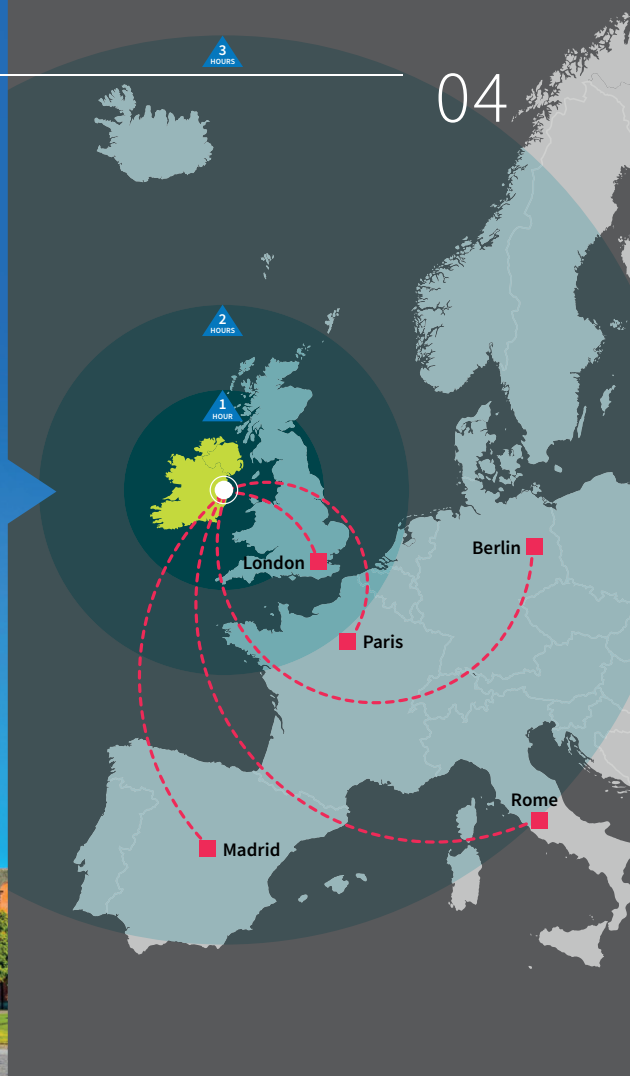
Trinity's central location makes it highly accessible for all forms of public transport: tram, rail and bus stops are right outside the University.
www.tcd.ie/maps

Ireland is an English speaking country in the EU.

Ireland has the 4th highest quality of life in the EU and 7th in the world according to UN Human Development Index 2023/24.



European hub for innovation and industry is based in Dublin: Google, Meta, Microsoft, Intel, Pfizer and HP based here.

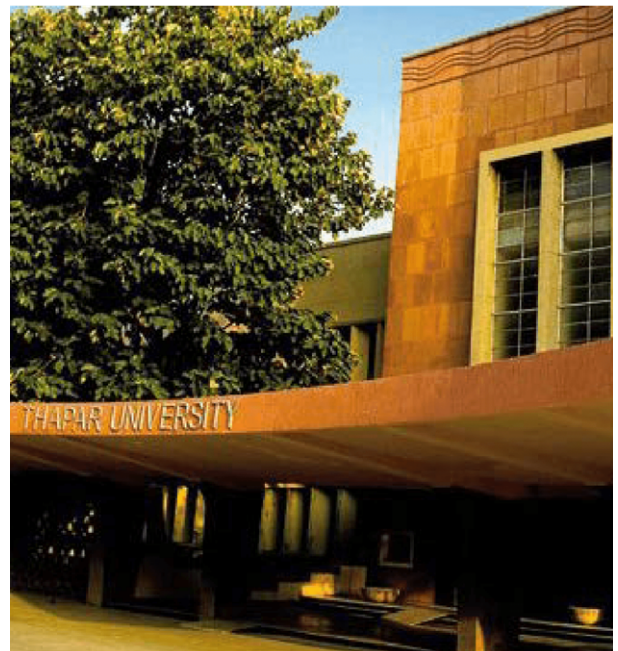


About Thapar Institute of Engineering and Technology



Thapar Institute of Engineering and Technology (TIET), Patiala, is one of India's finest institutions and a steady source of highly skilled manpower to corporate India. TIET has been ranked as the No. 2 private university for engineering in India by THE World University Ranking 2022. The success of TIET lies mainly on cutting-edge research, enviable infrastructure and smart institute industry linkages.

TIET, with its sprawling campus spread over 250 acres, is home to over 100 teaching and research laboratories in engineering and sciences. The majority of the students reside on campus in fully equipped hostels. The already impressive infrastructure will be further bolstered by a new Learning Centre which includes a Green Library, Computer Science Block and Lecture Hall complex.



The International Engineering Programme

The International Engineering Programme (IEP) between Trinity College Dublin, the University of Dublin and Thapar Institute of Engineering and Technology offers students an international educational experience. The two institutions have developed a 2+2 credit transfer programme which gives students admitted to undergraduate engineering programmes at TIET the opportunity to study and graduate from Trinity.

About Engineering at Trinity

The School of Engineering at Trinity was established in 1841 and is the oldest engineering school in the English-speaking world. The School has a strong philosophy of research-led teaching and offers outstanding teaching by engineers who are at the forefront of their field worldwide. The Computer Engineering and Electronic and Computer Engineering specialisations are led by the School of Computer Science and Statistics. The School is noted for establishing Computer Science as an academic discipline in Ireland, with a rich history in the development of world-class research and teaching, as well as many successful start-up companies.

A Unique Name

Our engineering degrees are historically called B.A.I which stands for Baccalaureus in Arte Ingeniaria meaning Bachelor in the Art of Engineering in Latin. Here the word Arte implies excellence in carrying out the 'art' or 'function' of an engineer. Students staying on for the master's degree obtain a M.A.I. Magister in Arte Ingeniaria.

Internationally Recognised

The engineering programmes in Trinity are professionally accredited by Engineers Ireland, who are part of the Washington Accord, and therefore are internationally recognised. Graduates have both a broad understanding of the whole discipline and a detailed knowledge of their chosen specialist area. The aim is that graduates will be able to continuously train themselves, to adapt and move into related or newly emerging areas as their careers develop after graduation.



Programme Information

Drawing on the expertise of the School of Engineering and the School of Computer Science and Statistics at Trinity, this programme focuses on delivering a research-inspired, outcome-based educational experience to students.

Eligible students will pursue the first two years of their course in India before transferring to Ireland for years 3 and 4 of the degree programme, subject to achieving the required grades. Additionally, qualified students can apply to pursue a Masters (MAI) qualification by completing one further year at Trinity.

6 Engineering Majors to Choose from:

- Biomedical Engineering
- Civil, Structural and Environmental Engineering
- Computer Engineering
- Electronic Engineering
- Electronic and Computer Engineering
- Mechanical and Manufacturing Engineering

Note:

Programmes and programme titles may be subject to change.

The Programme Structure

The first two years, taught in TIET, introduce the different facets of engineering, including introductory courses in Engineering, Science and Mathematics. From third year onwards, students have the opportunity in Trinity to broaden and deepen their knowledge and understanding of their chosen specialism. Subjects are studied in much greater detail and students undertake real-life, practical projects. See examples on Trinity's websites: www.tcd.ie/Engineering and www.scss.tcd.ie.

Admission Requirements

Admission to the TIET-Trinity International Engineering Programme is based purely on academic merit. TIET students who have successfully completed two years in the Thapar Bachelor of Engineering Programme and have secured a CGPA >7.0 (and with no outstanding backlog exams) may apply to be admitted as full time fee paying students at Trinity. Admission to the first two years of the programme will be made as per the entry requirements of TIET.

PROGRAMME:
UNDERGRADUATE
COMPUTER ENGINEERING

Ujjawal Aggarwal



“What I enjoy most about Trinity, is having the chance to study in one of the oldest European universities and live in one of the most beautiful cities in Europe, while getting to know the Irish culture. I chose Trinity as it provides state of the art infrastructure to engineering students. Trinity is also the 17th most international university in the world, allowing me to interact and network with other international students.”



International Engineering Course Structure

Year 1 – Undertaken in TIET

- Applied Physics
- Computer Programming – I & II
- Electrical Engineering
- Engineering Drawing
- Introduction to Professional Communication
- Mathematics – I & II
- Applied Chemistry
- Electronic Engineering
- Energy and Environment
- Engineering Design Project – I
- Mechanics

Year 2 – Undertaken in TIET

- Engineering Design Project – II
- Manufacturing Processes
- Optimisation Techniques
- Solids and Structures
- Thermo-Fluids
- Engineering Materials
- Numerical Analysis
- 4-5 Program Specific Modules

Year 3 – Undertaken in Trinity (Begin specialist lectures)

Year 3 modules (Common to all disciplines):

- Engineering Mathematics V
- Probability and Statistics
- Innovation and Entrepreneurship

For details of all modules and timetables, please see www.tcd.ie/Engineering/undergraduate/bai/year-3

Specialism modules in your discipline:

- Computer Engineering
- Electronic and Computer Engineering
- Electronic Engineering
- Mechanical and Manufacturing Engineering
- Civil, Structural and Environmental Engineering

Year 4 – Undertaken in Trinity B.A.I. Programme

Year 4 modules in your discipline (Common to all disciplines):

- Management for Engineers
- Individual Research Project Specialism modules in your discipline

For details of all modules and timetables, please see www.tcd.ie/Engineering/undergraduate/bai/year-4

Graduate with Trinity B.A., B.A.I. degrees.

Year 4 – Undertaken in Trinity/industry M.A.I. Programme

- Year at Trinity

OR

- Semester 1 – Trinity
- Semester 2 – Internship

Year 5 – Undertaken in Trinity B.A.I. Programme

Year 5 modules (Common to all disciplines):

- Individual Research Project
- Research Methods

Specialism modules in your discipline.

For details of all modules and timetables, please see www.tcd.ie/Engineering/undergraduate/bai/year-5

Graduate with Trinity B.A., M.A.I. degrees.

Note: Modules listed are indicative and may change slightly from year to year.

Accommodation

Trinity is committed to ensuring that all international students have a positive experience while preparing to make the move to Dublin.

Partnerships students will be prioritised for Trinity approved accommodation. More information on accommodation options while at Trinity can be found here: www.tcd.ie/accommodation



Student Life at Trinity

Immerse yourself in a broad range of sports clubs and student societies and get a real sense of the 'Trinity Experience'.

Your first days at Trinity

Freshers' Week

Trinity offers orientation to all new postgraduate and undergraduate students prior to the start of the academic year during a week known as Freshers' Week. It is a chance for you to meet your classmates, attend information sessions and sign up to one of many clubs and societies at Trinity. Find out more at: www.tcd.ie/students/orientation

A specific International Postgraduate Student Orientation takes place before teaching commences. Details are available at: www.tcd.ie/students/orientation/postgraduates

Trinity Education

After the excitement of Freshers' Week, teaching term starts, and you will be settling into your course. Most of your classes at Trinity will be a mixture of lecturers, tutorials and some practicals. Tutorials are less formal and usually take place in smaller groups, giving you a chance to delve deeper into the studied topics with your classmates and teaching assistants.

Trinity in Twelve Weeks

The "Trinity in Twelve Weeks" virtual programme aims to continue your orientation during your first semester and help your transition to university life. The programme has a new theme every week, from study and exam skills to how to look after yourself while at university. Your mentors will be in touch with you every week to let you know what the week's theme is and to arrange events and activities. Find out more at: www.tcd.ie/students/orientation/twelve-weeks

Pathway to Belonging

"Pathway to Belonging" is an 8-week pre-departure orientation programme for international students. This webinar series is an invaluable resource that will provide insider tips, important information and a sneak peek into campus life.

Trinity Clubs & Societies

As a student at Trinity, you will be able to choose from over 49 sports clubs including aikido, basketball, Gaelic football, surfing, hockey, rugby, soccer, table tennis, badminton and many more. You will also automatically be a member of our Sports Centre. The Sports Centre is where the majority of our fitness classes and programmes take place, 7 days a week. Facilities include a 25-metre swimming pool, climbing wall and a fully equipped gym. www.tcd.ie/sport

At Trinity, we have over 120 student societies which constitute some of the most dynamic and active university student societies in Ireland, allowing you to develop new skills or put your existing ones into action with everything from the International Student Society to the Zoological Society. Find out more at: www.trinitysocieties.ie



Career Opportunities

Your Career Journey at Trinity

Our graduates are highly sought after by employers across all sectors and many have gone on to successful careers around the globe. See below for just a few examples of the diverse organisations that have recruited Trinity graduates in recent years. The Trinity Careers Service supports students in exploring their career ambitions for the future and planning how to achieve them. Find out more about the Careers Service at: www.tcd.ie/careers

Did you know?

Trinity is a Top 100 University for Graduate Employability

QS GRADUATE EMPLOYABILITY RANKING 2022

Trinity has over 500 industry partners including Microsoft, Google, IBM, Pfizer, Roche, AIB and many more.



Where some of our Trinity graduates are now employed



LinkedIn

Microsoft



Riailtas na hÉireann
Government of Ireland

stripe



EY
Building a better
working world



HubSpot

Google

accenture
High performance. Delivered.



amazon



International Student Supports

Trinity is an exciting place, full of opportunities to learn, make friends, and experience new things.

While Trinity delivers world class courses, it is not just about your academic development: we also want Trinity to be a place where you can develop socially, responsibly, culturally and personally.

Full list of services available to view at: www.tcd.ie/study/international/student-experience/supports-services

We have many specific support services for international students including:

Talk to our students

Do you have a question about student life, the campus or living in Dublin? Connect with our students at: www.tcd.ie/global/talktostudents

English for Academic Purposes

Trinity offers both pre-sessional and in-sessional English language programmes.

Find out more at: www.tcd.ie/slscs/english

New to Dublin Programme

Student Ambassadors run this programme aimed at postgraduate students, covering everything from Dublin grocery shopping and public transport to making friends and adjusting to Dublin culture.

Trinity Global Room

The Global Room team provides guidance and support to international students on a wide range of issues including immigration, accommodation and all aspects of life at Trinity. www.tcd.ie/study/international/student-experience/global-room. For more information, please contact: tcdglobalroom@tcd.ie

Visa and Immigration

Some, but not all, non-EU/EEA students require an entry visa for Ireland. We advise students to apply for their visas early.

To check if you need a visa, please visit the Immigration Service Delivery at the link below: www.irishimmigration.ie/coming-to-study-in-ireland

Find out more at: www.tcd.ie/study/international/arriving-in-ireland/visa-immigration



Did you know?

Trinity is ranked 31st Most International university in the world

TIMES HIGHER EDUCATION RANKING 2024



If you have any questions about studying at Trinity,
please get in touch with us.

www.tcd.ie/study

The Trinity Global team is dedicated to helping international students and we would be delighted to answer your questions. Please contact us at:

Trinity Global

East Theatre,
Trinity College Dublin,
the University of Dublin
Dublin 2, Ireland.

www.tcd.ie/study
study@tcd.ie

If you have further questions about your application status you can contact the Applications and Admissions Team in Trinity's Academic Registry.

Academic Registry

Trinity College Dublin, the University of Dublin,
Watts Building,
Dublin 2, Ireland.

+353 (0) 1 896 4500
www.tcd.ie/academicregistry
academic.registry@tcd.ie

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www.linkedin.com/company/tcdglobal



www.facebook.com/tcdglobal



www.youtube.com/user/trinitycollegedublin



www.trinity-experience-blog.com

Trinity's Dedicated Channels In-Country

China

Bilibili: space.bilibili.com/695604784→
WeChat: weixin.qq.com/r/gEiJkWXEcTgOrSHy9x2S→
Weibo: m.weibo.cn/u/3905092477→

India

Facebook: www.facebook.com/trinitycollegedublinindia→
Instagram: www.instagram.com/trinitycollegedublin_india→

The Americas

Future Applicants from the Americas please follow our dedicated Instagram Account:
www.instagram.com/tcdamericas→

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