Thapar Institute of Engineering and Technology (TIET): International Engineering Programme

2 Years at TIET + 2 Years at Trinity
An Engineering Degree that’s twice as Powerful
Discover Trinity

Trinity College Dublin, the University of Dublin has been inspiring generations of brilliant thinkers for over 400 years. Trinity is an international university, steeped in history, with a reputation for excellence in education, research and innovation.

World Rankings
Trinity is ranked 1st in Ireland and 101st in the world (QS World University Ranking 2022). Trinity also ranks in the top 100 in 17 subjects, globally (QS World University Rankings 2021).

Our Vibrant Campus Life
With over 170 clubs and societies, including many international groups, there’s something for everyone. At Trinity, involvement in student organisations is an integral part of your education. Find out more at www.tcd.ie/students/clubs-societies.

The Trinity Welcome
A warm Trinity welcome awaits all our students. We believe that a diverse campus adds to the Trinity experience for everyone, enhances their personal development and enriches the culture of the university. Trinity is an open and inclusive university and we are proud to hold these values.

Your Career
Trinity is committed to preparing our students for the ever-changing challenges of the 21st century workplace. Trinity ranks in the Top 100 in the World for Graduate Employability (QS Graduate Employability Rankings 2022). Find out more at: www.tcd.ie/careers.

Join Our Diverse Community
Our current students come from 118 countries around the world. 24% of the student body are from outside of Ireland, providing a truly global community.

International Reputation
Trinity is Ireland’s most international university, ranked 8th in the world by the Times Higher Education 2021. Trinity is also 1st in Europe for producing entrepreneurs for the 6th year in a row (PitchBook Universities Report 2020).

Strong Research Reputation
Our students receive a world-class education in a research-centred, collaborative environment and have the opportunity to work with global leaders in their field. Trinity is also the only Irish member of the prestigious League of 23 European Research Universities (LERU). Find out more at: www.tcd.ie/research.

Join Our Esteemed Alumni
Trinity has produced some of the world’s finest and most enquiring minds including the writers Oscar Wilde and Samuel Beckett (Nobel Laureate), the scientists William Rowan Hamilton and Ernest Walton (Nobel Laureate) and the former President of Ireland and United Nations High Commissioner for Human Rights, Mary Robinson.
Trinity by Numbers

Ireland’s Leading University
(QS World University Ranking 2022 and
THE World University Ranking 2022)

1st in Europe for producing
Entrepreneurs for the
6th year in a row
(Pitchbook Universities Report 2020)

1592
Year in which Trinity
was founded

8th Most International
University in the World
(Times Higher Education Ranking 2021)

131,000 Trinity alumni
(graduates) in over
150 countries worldwide

2021
101st World Ranking
(QS World University Rankings 2022)

300+ partner universities
around the world for
student exchanges

24% of the student body are
from outside of Ireland,
from 118 countries

170+ Sports clubs and
student societies

TRINITY TOP 100 UNIVERSITY IN
THE WORLD FOR 17 SUBJECTS

BIOLOGICAL SCIENCES
CHEMISTRY
CLASSICS AND ANCIENT HISTORY*
COMPUTER SCIENCE AND INFORMATION SYSTEMS
EDUCATION
ENGLISH LANGUAGE AND LITERATURE*
HISTORY
LAW
MATERIALS SCIENCE
MODERN LANGUAGES
NURSING*
PERFORMING ARTS
PHARMACY AND PHARMACOLOGY*
PHILOSOPHY
POLITICS AND INTERNATIONAL STUDIES
SOCIAL POLICY AND ADMINISTRATION
THEOLOGY, DIVINITY AND RELIGIOUS STUDIES

*Ranked Top 50 in the QS World Rankings 2021
Why Ireland?

Ireland is a member of the European Union and is located in the North Atlantic beside the UK. Ireland is an English-speaking country with a young, vibrant population. It boasts a unique combination of cosmopolitan cities, breath-taking scenery, idyllic countryside and historic sites. The country is a European hub for innovation and industry with global companies such as Google, Facebook, Microsoft, Intel, Pfizer and HP based here.

Ireland has been renowned for its people, music, literature and art for centuries. It is world-famous for its friendly citizens and warm welcomes.

Your University, Your City

Trinity’s is a unique, walled campus located in the heart of one of the most popular and safest cities in the world. Dublin is a vibrant, young and multicultural European capital, which ranks as the 37th best student city in the world (QS World’s Best Student Cities 2019).

Everything the city has to offer is easily accessible to Trinity students from shops, restaurants and coffee shops to theatres, museums and clubs, ensuring that there is always something exciting for students to enjoy. If you want to take time out to relax in nature, the city’s parks (including Phoenix Park, one of the largest urban parks in Europe), an easily accessible coastline, beaches and the Dublin Mountains are all close by.

Ireland is ranked 8th most peaceful country in the world (Global Peace Index 2021)

Ireland is an English speaking country

Ireland is the 12th most competitive economy in the world according to IMD (IDA 2020)

Stay Back Permit
Combine your academic work with experience
Dublin Innovation District

Trinity’s location is also advantageous when you are looking for a job. Dublin’s Innovation District, the ‘Silicon Docks’ is within walking distance, as is the International Financial Services Centre, and a large number of other businesses and organisations which have their Irish headquarters in Dublin. Dublin is also home to many global corporations across a range of sectors.

Be at the Centre of Things

Trinity’s central location makes it highly accessible for all forms of public transport: Trinity has its own LUAS (tram) station, there is a DART (Dublin’s suburban rail system) station opposite the campus and a large number of Dublin’s bus services pass by the University. Dublin airport is 13km (8 miles) from the campus and is directly accessible via bus or taxi.

The best way to explore Trinity’s unique lively, traditional, urban experience is to pay us a visit.

To sign up for a tour (subject to COVID-19 restrictions) please visit: www.tcd.ie/study/international/visit

Or take our student led virtual tour at:youtu.be/XMchbHvzMOo

Did you know?

Dublin is ranked 37th Best Student City in the world (QS Rankings 2019)

Browse campus maps and directions to Trinity at: www.tcd.ie/maps
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.

NBA Accredited

NAAC A+ Grade NAAC Accrediation

ABET Accreditation of 5 UG programmes

#2 in Engineering among Private Universities in India (THE World University Rankings, 2022)

Rank 26 among all institutions of higher education in India (NIRF 2021)

Rank 38 Research Output in India (NIRF 2021)

Rank 23 For Engineering among all institutions of higher education in India (NIRF 2021)

Rank 30 Ranked 30th in India (QS World University Rankings 2020)
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: Programme 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](http://www.tcd.ie/Engineering) and [www.scss.tcd.ie](http://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.

Ujjwal Aggarwal
Programme: Undergraduate Computer Engineering

“...What I enjoy most about Trinity, is having the chance to study in one 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

Year 2 – Undertaken in TIET
▶ Engineering Design Project – II
▶ Manufacturing Processes
▶ Optimisation Techniques
▶ Solids and Structures
▶ Applied Chemistry
▶ Electronic Engineering
▶ Energy and Environment
▶ Engineering Design Project – I
▶ Mechanics
▶ 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 modules in your discipline
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.
Coming to Ireland

Trinity is committed to ensuring that all international students have a positive experience while preparing to make the move to Dublin. Trinity’s support services are available to provide all the help and advice you will need to apply for your visa and find a place to call home.

Accommodation

All students joining Trinity through this partnership will be accommodated in Trinity-owned or Trinity-recommended accommodation, provided students apply by the housing deadline. Students may apply for a room once they have accepted a place at Trinity. Find out more at: www.tcd.ie/accommodation

Living in Trinity accommodation brings a further dimension to your participation in college life. You will be living as part of the Trinity community and will have greater opportunities for getting involved in many aspects of student life while making lifelong friends.

Students who wish to avail of the Trinity-owned or Trinity-recommended accommodation, must confirm by e-mailing international@tcd.ie before June 30th.

For students who do not wish to avail of the Trinity-owned or Trinity-recommended accommodation, an alternative is to seek private rented accommodation, usually sharing an apartment or a house with other students.

The Trinity Accommodation Advisory Service helps students find accommodation by providing them with advice and access to househunting resources.

For further information and advice see: www.tcdsuaccommodation.org

Visas

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 webpage at: www.irishimmigration.ie/coming-to-study-in-ireland

It is important to note that all non-EU students, whether visa required or not, must register with the Immigration Service Delivery for permission to remain in the state. Students must show their offer letter at airport immigration where they will receive a temporary stamp in their passport. They must register with the Immigration Service Delivery within the time limit specified on their temporary stamp.

You can request a visa offer letter by emailing: academic.registry@tcd.ie

Applying for a Visa

Students should submit their visa applications using the AVATS facility at: www.irishimmigration.ie

The application will only be processed when the online form is completed and the required documentation, passport photograph and appropriate fee are received by the relevant offices as indicated by the online system.

Please refer to the links below for Visa Guidelines:

www.irishimmigration.ie/coming-to-visit-ireland/how-to-apply-for-a-short-stay-c-visit-tourist-visa

Contact details for embassies can be found here:


Additional information on visas and immigration can be found at:

www.irishimmigration.ie/coming-to-study-in-ireland

Checking Your Visa Status

▶ Apply early, allowing at least 8 weeks for processing.
▶ You can check online for visa decisions using your visa application number at: www.irishimmigration.ie/visa-decisions
▶ When your visa is approved, the Embassy to which you sent your documents will affix a visa to your passport.
Immerse yourself in a broad range of sports clubs and student societies and get a real sense of the ‘Trinity Experience’.

### Student Societies and Sports Clubs

At Trinity, we have 120 student societies which are some of the most dynamic and active university student societies in Ireland with everything from the Animation Society to the Zoological Society. We are home to the world’s oldest student societies, the ‘Hist’ or Historical Society founded in 1770 and the ‘Phil’ which is the oldest debating society in the world, founded in 1683, and whose guests have included everyone from Hollywood heavyweights such as Martin Scorsese to International Space Station commander Chris Hadfield. Find out more at: [www.trinitysocieties.ie](http://www.trinitysocieties.ie)

The Sports Centre, located at the Westland Row end of campus, is where the majority of our fitness classes and programmes take place, seven days a week. Facilities include a 25-metre swimming pool, climbing wall, fully equipped gym with free weights and cardio machines, virtual cycle and a wellness room. Students are automatically members of the Sports Centre. There are small additional costs for some classes.

There are 50 sports clubs to choose from including: aikido, badminton, basketball, boating, boxing, climbing, cricket, cycling, equestrian, fencing, Gaelic football, golf, handball, hockey, hurling, judo, karate, kayaking, tennis, rugby, sailing, soccer, squash, surfing and bodybuilding, swimming, table tennis, taekwondo, trampoline, ultimate frisbee, triathlon and volleyball. Find out more at: [www.tcd.ie/sport](http://www.tcd.ie/sport)

### Trinity Publications

Trinity students produce the widest range of student publications of any third level institution in Ireland including Trinity News, the University Times, Icarus, The Piranha, TCD Miscellany and Trinity Film Review. See: [www.trinitypublications.info](http://www.trinitypublications.info)

### Restaurants and Coffee Shops on Campus

Students can choose from a wide range of restaurants and coffee shops on campus to suit all tastes and budgets, including:

- The modern Buttery Food Court with a hot food counter, deli counter, and gourmet coffee shop.
- The Old Dining Hall, where lunch is enjoyed in traditional splendour, but with a student budget in mind.
- The Pavilion Bar serving hot food all day, for breakfast, lunch, and dinner.
- The Perch, a brand new café in the Arts Building offering a range of hot and cold beverages, pastries and sandwiches, and grab and go food offers.
- Coffee shops in the Hamilton Building and Áras an Phiarasigh.
- Forum Restaurant is a state of the art dining outlet located in the Trinity Business School.

See: [www.tcd.ie/catering](http://www.tcd.ie/catering) or follow us on Facebook or Twitter (@TCDbites) for further details and special offers and promotions.

### A Sustainable Campus

In a world with finite resources, Trinity offers students a variety of ways to learn how to live sustainably, and to develop the kind of innovative thinking and adaptability to enable you to thrive in a rapidly changing world. Trinity’s academics and researchers are global leaders in subjects such as climate change, nature based solutions, biodiversity, environmental science, smart technology and engineering.

Our commitment to sustainability is evidenced in key milestones over the last 15 years, such as:

- Student-led plan to reduce disposable plastics on campus (2018)
- Trinity is a Green Flag Campus for the last 8 consecutive years.
- 62% reduction in paper use since 2011, 62% reduction in water use since 2006 and 32% increase in energy efficiency since 2006.
- 84% of staff and students use sustainable transport (public transport/cycling/walking) to commute.

Students actively participate in imagining, driving and implementing campus sustainability initiatives through the Students’ Union, Student Sustainability Network, Green Campus Committee, Young Greens, Vegan Society and the EnviroSoc (Environmental Society) and in the Resident Sustainability Champions programme among other groups. The Students’ Union and Graduate Students’ Union have Environmental Officers devoted to supporting and responding to environmental and sustainability issues. We hope you will choose to join your energy with ours to create a more just and verdant world. Find out more at: [www.tcd.ie/provost/sustainability](http://www.tcd.ie/provost/sustainability)

### Did you know?

Trinity is ranked 14th in the world for global impact (Times Higher Education Rankings 2020)

Note: some activities may be subject to COVID-19 restrictions.
Support Network

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.

But with so much going on, we know that you might need a helping hand every now and then. From the first day, undergraduate students are assigned a personal tutor and a student mentor to make sure that you always have someone on hand to explain things to you, advise you or just listen.

Our student support services include:

- Student Learning Development
- Student Counselling
- Student Health
- Careers Service
- Disability Service
- Academic Registry
- Students’ Union and Graduate Students Union

We also have specific support programs for international students.

Airport Meet and Greet Service

New international students arriving at Dublin Airport can avail of this free service. Services may change in 2022 but students can expect a welcome service with further details closer to time of arrival. Find out more at: www.tcd.ie/students/your-arrivalsept-2021/when-you-get-here.php

Note: subject to COVID-19 restrictions.

International Student Orientation

During Freshers’ Week, Trinity runs a series of sessions for international students addressing cultural adjustment as well as practical concerns such as banking and immigration. Find out more at: www.tcd.ie/orientation

Student Mentors

All undergraduate students are assigned a Student 2 Student (S2S) mentor during Freshers’ Week. Your mentor will ensure you meet your classmates during Freshers’ week, will show you around the campus and will keep in regular touch, inviting you to events on and off campus. S2S also offers Peer Supporters, students available for one-to-one conversations on request. They’re highly trained, confidential and very approachable. Find out more at: student2student.tcd.ie

Trinity Global Room

Global Room staff and student ambassadors are available to assist with advice (particularly with immigration questions), locating student services, adjusting to life in Ireland or planning internationally-themed events. The Global Room hosts celebrations of national holidays, film screenings, student society events, social events and get togethers, alongside information seminars and talks. Find out more at: www.tcd.ie/study/international/student-experience/global-room.php Contact us at: tcdglobalroom@tcd.ie

New to Dublin

The Global Room Ambassadors run this programme at the start of the academic year aimed at undergraduate students who are new to Dublin. The groups meet for a few weeks in the evening during the first term and cover everything from Dublin grocery shopping and public transport to making friends and adjusting to Dublin culture. They also run a ‘Getting to Grips’ programme aimed at postgraduate students.

English for Academic Purposes

Trinity offers both pre-sessional and in-sessional English language programmes for incoming and current students who are non-native speakers of English. Please note places are limited. Find out more at: www.tcd.ie/slcs/english

Career Support for International Students

Career support is available for students looking to gain work experience while studying in Trinity, as well as for students looking to translate their experience in Trinity to a career back home or internationally. The Careers Service provides career guidance, advice and feedback on job applications and interview preparation and organises employer events on campus throughout the academic year. Find out more at: www.tcd.ie/careers/mycareer/students.php

In order to encourage talented, skilled graduates to pursue careers in Ireland, upon successful completion of an undergraduate or postgraduate programme at Trinity, undergraduate students have the possibility to stay in Ireland to work for one year on the Third Level Graduate Scheme, while eligible postgraduate students can stay for up to two years. This allows students to gain work experience opportunities in Ireland in a wide range of industries and organisations.

Students may also have the option of remaining in Ireland for a longer period if they are able to secure employment that meets the criteria for a Work Permit.

For further information see: www.irishimmigration.ie/my-situation-has-changed-since-i-arrived-in-ireland/third-level-graduate-programme

Please note that a hybrid of virtual and face to face supports may still be in place for 2022 entry due to Covid-19.
Starting your Career

Your Career Journey
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 1st in Europe for producing entrepreneurs for the 6th year in a row
(Pitchbook Universities Report 2020)

Innovation and Entrepreneurship

Start Your Own Business / Social Enterprise
Trinity is committed to empowering our students, enabling them to set up their own companies, realise their potential inside and outside of the lecture theatre, and become entrepreneurially-minded graduates.

As a European leader in student entrepreneurship, Trinity has established Tangent, Trinity’s Ideas Workspace. This world-class facility, co-located within an expanded Trinity Business School, offers students, staff and the wider innovation ecosystem a place to come together to collaborate, build and innovate.

A selection of leading multi-nationals where some of our Trinity graduates are now employed

Trinity is a Top 100 University for Graduate Employability
(QS Graduate Employability Ranking 2022)
If you have any questions about studying at Trinity, please get in touch with us.

The Global Relations team is dedicated to assisting international students and we would be delighted to answer your questions.

Please contact us at:

Global Relations Office
East Theatre,
Trinity College Dublin,
Dublin 2, Ireland.
Tel: +353 (0) 1 896 4507
Email: international@tcd.ie
www.tcd.ie/globalrelations

Academic Registry
Watts Building,
Trinity College Dublin,
Dublin 2, Ireland.
Tel: +353 (0) 1 896 4500
Email: academic.registry@tcd.ie
www.tcd.ie/academicregistry

To find out more about studying at Trinity, see www.tcd.ie/study