

## BRIEF INTRODUCTION

In the present age, Universities are becoming wise to various strategies and striving to deliver top-quality education globally. Thapar Institute of Engineering & Technology, Patiala (TIET) has proven its mettle in the past and is at the forefront of embracing change and delivering quality education to students from across the country. TIET brings to the world 65+ years of sparkling excellence. TIET has grown impressively in both size and activities during the last six decades of its existence. TIET's main campus at Patiala is spread over 250 acres. Its portals are a testimony to the making of professionals whose brilliance has shaped new ideas. Recognized amongst the leading privately managed engineering institutions of the country and the best of its kind in the north-western region of India. TIET is ranked 29<sup>th</sup> amongst top engineering institutes and universities in NIRF Ranking in 2024. TIET is determined to move up the ranking ladder by excelling in all spheres of teaching, research, and placements. At present TIET is amongst the top few Indian private universities that are recognized among the academic world and global rankings.

## ACADEMIC PROGRAMMES OF THE INSTITUTE

The Institute offers undergraduate programmes in Engineering & Technology and Liberal Arts and Sciences. The Institute also offers graduate programs leading to MA, MBA, MCA, MSc, ME/MTech degrees, and at the doctoral level, Ph.D. degrees.

The salient features of the programmes are *semester-wise credit system, letter grades, continuous evaluation of the students' performance, course-wise promotion, and Choice Based Credit System (CBCS)* which provides *flexibility to allow the students to select courses and move at an optimum pace suited to their ability, capacity, and interest.*

## ACCREDITATIONS OF THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY (TIET)

### 1. National Assessment and Accreditation Council (NAAC), UGC

Thapar Institute of Engineering & Technology has been accredited with 'A++' grade by National Assessment and Accreditation Council (NAAC), UGC.

### 2. Accreditation Board for Engineering and Technology (ABET)

Five B.E. programs viz Computer Engg., Mechanical Engg., Electronics and Communication Engg., Electrical Engg., and Civil Engg. program of Thapar Institute of Engineering & Technology, Patiala received the prestigious ABET accreditation as a confirmation of meeting the Global Standard of Technical Education. ABET is a US-based organization that accredits post-secondary education programs in "applied science, computing, engineering, and engineering technology", which occurs mainly in the United States (USA) but also internationally.

### 3. National Board of Accreditation (NBA)

Eligible undergraduate programs are accredited by NBA.

## RANKINGS

Our notable rankings include:

### National Institute Ranking Framework (NIRF) Rankings

- Ranked 29<sup>th</sup> in 'Engineering' category in the top Engineering Institutes in the country,
- Ranked 29<sup>th</sup> in 'University' category,
- Ranked 43<sup>rd</sup> in 'Overall' category,
- Ranked 44<sup>th</sup> in 'Management' category,

- Ranked 39<sup>th</sup> in 'Research' category.

### Times Higher Education Rankings

- Ranked in the "601-800" bracket worldwide in the Times Higher Education World University Rankings 2025.
- Ranked in the "201-250" bracket in Asia in the Times Higher Education Asia University Rankings 2024.
- **THE World University Rankings 2024 by Subject**

**Computer Science:** 401-500 bracket worldwide.

**Engineering:** 501-600 bracket worldwide.

### QS Rankings

- Ranked in the "851-900" bracket worldwide in QS World University Rankings 2025.
- Ranked at 261 position in QS Asia University Rankings 2025.
- **QS World University Rankings by Subject 2024**

**Computer Science & Information Systems:** 401-450 bracket worldwide

### Shanghai Subject Rankings

- **Shanghai Rankings by Subject 2024**

**Engineering – Electrical & Electronic:** 401-500 bracket worldwide

**Computer Science & Engineering:** 301-400 bracket worldwide

### ACADEMIC UNITS

The academic units of the Institute are **Departments, Schools, and Centres**. The role of the **Departments** is to organize and conduct undergraduate, postgraduate, and doctoral programmes in a relevant engineering/technological disciplines, while the **Schools** cater to only postgraduate and doctoral programmes. The **Centres** are special inter-disciplinary units serving the Institute as a whole.

#### A. DEPARTMENTS

- (i) Chemical Engineering Department
- (ii) Chemistry & Bio-Chemistry
- (iii) Civil Engineering Department
- (iv) Computer Science & Engineering Department
- (v) Department of Biotechnology
- (vi) Electrical & Instrumentation Engineering Department
- (vii) Electronics & Communication Engineering Department
- (viii) Energy and Environment
- (ix) Mathematics
- (x) Mechanical Engineering Department
- (xi) Physics & Materials Science

#### B. SCHOOLS

- (i) Humanities and Social Sciences
- (ii) L M Thapar School of Management (Off campus)

- (iii) Thapar School of Liberal Arts and Science

### **C. CENTRES**

- (i) Central Library
- (ii) Central Workshop
- (iii) Centre for Industrial Liaison and Placement (CILP)
- (iv) Centre for Training & Development (CTD)
- (v) Centre of Relevance and Excellence (CORE) in Agro and Industrial Biotechnology
- (vi) Centre of Information and Technology Management (CITM)
- (vii) Science and Technology Entrepreneur's Park (STEP)
- (viii) Experiential Learning Centre

### **Medium of Instruction – English**

#### **FACULTY**

Recruiting high-quality faculty is essential for the success of any academic institution. At TIET, we have a rigorous selection process to ensure we bring the best talent on board. Candidates are required to present their research work to an internal committee and then undergo in-depth interviews conducted by a panel of external experts from premier institutions such as IITs and IIMs. Preference is given to those who have earned their PhDs from institutions ranked among the top 50 in the NIRF rankings.

Understanding the importance of training and retaining world-class faculty, we have undertaken several initiatives to support their continuous professional development. One of the key steps is our partnership with Trinity College Dublin (TCD) through a formal MoU, aimed at equipping our faculty with advanced teaching practices and pedagogies. To drive this initiative, we have established the Centre for Academic Practices and Student Learning on campus. Faculty members trained by TCD are now conducting both basic and advanced training programs for their peers. Our goal is to have all faculty members certified in these cutting-edge methodologies.

This initiative is expected to bring transformative improvements in teaching practices across the institute. We are confident that it will enhance the learning experience for students, promote greater student participation in research activities, and ultimately help produce graduates who are well-equipped to make meaningful contributions to society.

#### **MoU WITH FOREIGN UNIVERSITIES/ORGANIZATIONS**

Thapar Institute of Engineering & Technology has Institutional MoUs with top universities globally. Prominent ones are

- University of New South Wales,
- University of Queensland, Australia,
- Trinity College Dublin (TCD),
- University of Toledo, United States of America,
- Virginia Tech, United States of America
- Tel Aviv University, Israel,
- George Mason University, United States of America
- KTH Royal institute of Technology, Sweden
- University of Groningen, Netherlands,
- Miami University, United States of America
- University of La Rochelle,
- University of Malta, Malta

- University of Twente, Netherlands
- University of Angers, France
- Temple University, Japan

The Institute also has highly active research and academic collaboration with industries. Some of them are

- Tata Consultancy Services,
- Volvo Group
- Infosys,
- NVIDIA graphics Pvt. Ltd.,
- Samsung R&D Institute India-Bangalore Pvt. Ltd.,
- MEITY (GOI) for Science and Technology Entrepreneurship Park,
- Future First academics,
- NSIC,
- NXP,
- n+l

## **ALUMNI UPDATE**

2023: A Year of Reconnecting, Recognizing, and Rewriting Stories at the Alumni Office

2023 vibrated with the spirit of connection, service, and shared legacy, thanks to the tireless efforts of the Alumni Office. From honoring heroes to celebrating milestones, we witnessed a tapestry of events that reaffirmed the enduring strength of our community.

### **National Rekindling:**

- Heartfelt Reunions: Delhi, Mumbai, and Bangalore pulsed with laughter and reminiscence as alumni from all walks of life reunited. These gatherings, infused with nostalgia and heartfelt conversations, underscored the power of our alumni network.

### **The Global Tapestry:**

- International Meets: From the bustling streets of San Francisco to the historic charm of London, Detroit, and Canada, our global alumni network convened in joyous reunions. These vibrant gatherings celebrated cultural diversity and reaffirmed our shared identity as Thapar Institute of Engineering and Technology graduates.

### **Celebrating Heroism and Perseverance:**

- Tribute to Gur Iqbal Singh Sandhu (Batch 1970): We bowed our heads in homage to this courageous alumnus who sacrificed his life for the nation. The "Tribute to Gur Iqbal Singh Sandhu" event resonated with profound respect and gratitude, reminding us of the values of service and sacrifice held dear by our community.

### **Reawakening Memories:**

- Jab We Met: Reunion of Batch 1977: "Jab We Met" wasn't just a movie title; it was the joyous theme of the Class of 1977's reunion; time stood still as the Class of 1977 relived their college days in the reunion. The air crackled with laughter and anecdotes, showcasing the unbreakable bonds forged within these hallowed walls.

### **Honoring Excellence:**

- Distinguished Alumnus Award: Recognizing exceptional achievements, the Distinguished Alumnus Award ceremony lauded two individuals (Tarun Kapoor and Robin Raina) whose contributions have shaped their fields. Their stories inspired our current students and instilled pride in our alumni network.

### **Global Collaborations:**

- MaRIHE & Erasmus Mundus Scholarship Students - India Chapter: Fostering knowledge exchange and international camaraderie, MaRIHE hosted representatives from universities across the globe. This dynamic forum strengthened ties between institutions and empowered future leaders.

### **Golden Memories, Silver Reflections:**

- Golden Jubilee of Batch-1973 & Silver Jubilee of Batch-1998: These milestone celebrations resonated with nostalgia and pride. For both classes, it was a chance to reconnect, relive cherished moments, and witness the remarkable transformation of their alma mater.

### **A Legacy We Carry Forward:**

2023 was a testament to the unwavering commitment of the Alumni Relations Office to building a vibrant and inclusive community. In 2024, we pledge to continue nurturing these connections, offering invaluable opportunities for professional development, mentorship, and lifelong learning. Join us, be a part of this thriving tapestry, and write your chapter on the rich history of Thapar Institute of Engineering and Technology.

### **CENTRE FOR TRAINING & DEVELOPMENT (CTD)**

Producing world-class professionals by imparting quality education has been a priority for Thapar Institute of Engineering and Technology (Deemed University). However, these professionals operate in 'human organizations' requiring effective communication, appropriate behavior, good interpersonal skills, problem-solving & decision-making skills, and an understanding of the global work environment. The Centre for Training & Development (CTD) is responsible for addressing the above needs to transform students into employable, future-ready, global resources, demonstrating the following:

- Global Sensitivity
- Excellence-seeking Behavior
- Social Entrepreneurial Mindset

### **Key Responsibility Areas (KRAs)**

- Identifying the need for aptitude & soft skills training
- Conceptualizing, designing, organizing, and implementing training programs based on the above needs
- Providing on-campus mentoring and career counseling sessions
- Inviting Industry experts to interact with students on contemporary employability and work environment challenges
- Liaising with CILP to understand current corporate requirements and accordingly customize training programs
- Administering and delivering standardized tests like the GMAT (Pearson Testing)

In light of the above, CTD conceptualizes, designs, and implements a series of learning and development programs for students. The immediate objective of these programs is to prepare students for campus placements and enable them to secure their dream jobs! In the long run, these programs aim to acclimatize students to the industry and society's challenges, helping them to perform with empathy and intellectual humility.

#### **I. Employability Training Programs**

These programs aim to prepare students for various placement-related challenges, enhancing their probability of professional, personal, and societal success.

✓ **Employment Development Skills**

This program is positioned as a generic elective for UG students in their second, third, and fourth years of study. It prepares students for campus placement and industry-related challenges. It includes areas like team dynamics and collaboration, emotional intelligence, leadership, managing diversity, etc.

✓ **PlaceMentor**

This program helps students to get experiential insights into the selection process of various companies. It is designed to create an interaction between the students already placed and the ones currently sitting for placements. Successful students connect with the aspiring ones to share their experiences, and handle queries related to interviews, group discussions, extempore presentations etc.

✓ **Placement Preparator**

This is an annual program and is meticulously designed to prepare students for specific employability related challenges.

**Program Features:**

- Intensive concept sessions on basics of Group Discussion, Case Study, Guesstimate, Psychometric Test, Extempore Speech and Personal Interview
- Simulated practice sessions on Group Discussions, Case Studies & Personal Interviews
- Strategic performance feedback with a customized improvement plan
- One-on-one Resume Building sessions (weekly)

✓ **Summer School**

The Centre conducts a 5-week intensive reviser module on aptitude skills, including group discussions, interviews, case studies, and guesstimates. This program is organized for pre-final and final year students poised to sit for job and internship placements after the summer break.

**Program Features:**

- Comprehensive workshops on employability skills
- Concept and application sessions on aptitude skills
- Practice sessions on GDs and Case Studies

✓ **Apti – Doze**

The Centre conducts weekly sessions to prepare students on quantitative, verbal and logical reasoning.

**Program Features:**

- Concept sessions on quantitative ability, data interpretation, logical ability, verbal ability, and reading comprehension
- Practice sessions on various areas of aptitude assessment
- Test-taking and strategy sessions on various areas of aptitude assessment

✓ **Words - Worth**

The Centre conducts regular weekly sessions to prepare students for communication-related challenges.

**Program Features:**

- Communication drills with feedback to improve
- Prepared and impromptu presentation tasks with strategic inputs
- Employability-related communication exercises

**✓ Placement Symposium**

This is an event for final-year students where exhaustive concept and practice GD-PI (Group Discussion-Personal Interview) sessions are organized for the participants, with comprehensive performance feedback enabling them to bridge the actual and expected levels. It is organized just before the onset of the placement season and is mandated by the DOAA.

**Program Features:**

- Strategy sessions on Group Discussions, Case Studies, Psychometric Tests, Aptitude Tests and Personal Interviews
- One-on-one interview sessions with performance analysis and action plan
- Closely moderated practice Group Discussions & Case Studies
- Aptitude Test covering both general & technical areas

**II. Career Support Programs**

These programs are designed for students targeting discrete career paths upon completing UG/PG engineering courses. The encompassing scope of career support programs includes the following:

**✓ Career Advancement**

In this interaction, students are assisted in identifying the career path most suited to their interests, aptitude, and motivation. They are typically advised to write the Career Proficiency Test, which generates career suitability coefficients based on their work personality, career drive, and behaviour. The report of this test serves as a medium to engage more meaningfully with the students. Students choose from career options like core engineering, consulting, management, public administration, etc. Career-related tips are also shared with students regularly. In this direction, the center also launched a bi-monthly e-publication called Coach, giving material on aptitude and soft skills required for various career challenges. Regular career bites are circulated on the center's Instagram page, with a substantial viewership and follower base. Edge'ucator sessions are organized occasionally to sensitize students concerning industry and society readiness. One-on-one assistance is given for resume building, where students are helped to develop resumes customized to meet specific requirements stated in the job description of organizations.

**✓ Competitive Examinations**

In this engagement, students are mentored and guided regarding the competitive examinations they target, like CAT, GRE, GMAT, IELTS, etc. Guidance is provided to help students for acing various stages of these examinations like concepts, application, and test-taking strategy. The centre signed a contract with Pearson VUE to organize the GMAT test administration on campus. Recently, the centre also signed an MOU with ETS, the organization that conducts the GRE worldwide, to provide GRE guidance and coaching to interested students. Coaching is also organized to prepare students in all four areas of the IELTS – listening, speaking, writing, and reading.

✓ **International Admissions**

Looking at the soaring number of students that pursue MS and MIM options abroad, the centre launched its international admissions support services in 2019. Since then, the center has guided students in choosing relevant programs/schools, drafting letters of recommendation, and preparing purpose statements. Specific counseling is provided for building profiles viewed favorably for various engineering and management school admissions. Directional inputs are imparted to enrich profiles to meet various schools' entry and admission norms, like taking up relevant coursework and project work and engaging in socially useful and productive work.

**III. Professional Readiness Programs**

These programs are offered to students requiring specific inputs on certain areas of professional significance. Students are awarded a certificate upon successful completion of the program. Sessions are conducted on weekends across a total duration of 32 - 40 hours; All UG/PG students are eligible to enrol. Based on popular student demand, the following programs are currently being offered:

✓ **Finance for Engineers**

The course, 'Finance for Engineers,' has been designed to sensitize students to the financial environment. Such sensitivity is imperative for appreciating the vast domain of business and economy and is also evaluated by companies like JP Morgan during the campus placement process.

✓ **Business Analytics Edge**

The course, 'Business Analytics Edge', has been designed to address the challenge of 'Data Driven Decision Making' assessed by various companies during the placement process.

✓ **Power Business Intelligence**

The course, 'Power Business Intelligence,' has been designed to help students understand the standalone application of Microsoft Power BI through the combination of four tools: power query, power pivot, power view, and power map.

✓ **Data Visualization through Tableau**

This course explores data visualization using Tableau, a powerful and widely used business intelligence tool. Participants gain hands-on experience creating compelling and interactive visualizations to communicate insights from complex datasets effectively. The course covers fundamental concepts of data visualization, Tableau functionality, and best practices for creating impactful visual representations of data.

✓ **Communicating Professional Worth**

The "Communicating Professional Worth" course is tailored for students seeking to enhance their ability to effectively communicate their values, achievements, and contributions. In today's competitive business environment, articulating one's professional worth is crucial for career advancement, recognition, and successful collaborations. This course equips participants with the tools and strategies to confidently and persuasively communicate their worth to colleagues, superiors, and potential employers.



✓ **Personal Branding**

The "Personal Branding" course is a comprehensive exploration of the principles and strategies needed to define and cultivate a strong personal brand. In today's competitive professional landscape, individuals need to stand out and communicate their unique value proposition effectively. This course provides participants with the tools and insights to build and maintain a powerful personal brand that aligns with their goals and aspirations.

✓ **Leading with Impact**

The "Leading with Impact" course is designed for students seeking to enhance their leadership skills and make a positive, influential impact within their organizations. This transformative program goes beyond traditional leadership models, focusing on a holistic approach that combines self-awareness, strategic thinking, effective communication, and the ability to inspire and motivate teams.

✓ **Creative Thinking for Professional Success**

The "Creative Thinking for Professional Success" course is designed to unlock and cultivate students' creative potential, foster innovative problem-solving, and drive success in today's dynamic work environments. This course goes beyond traditional thinking patterns, encouraging participants to embrace creativity as a critical skill for personal and organizational growth.

**IV Skill Assessment Programs**

CTD organizes various assessment tests in different semesters of UG/ PG courses. In the first semester of UG/PG, students write a Skill Assessment Test (SAT), which measures their abilities in 13 areas critical to employability. Students are given a comprehensive report with a detailed action plan. In the fourth semester of UG/ second semester of PG, an advanced version of the SAT is conducted and is supported with comprehensive counseling. In the sixth semester of UG/ fourth semester of PG, a Placement Readiness Test is conducted for a near-real simulation of the aptitude tests conducted by companies during campus placements.

**V Customized Training Programs**

These programs are conceptualized, designed, and implemented according to the needs raised by a particular department/school/centre. The most recent program here is the 'Smart Skills Development Program' for IEP students.

✓ **Smart Skills Development Program @IEP students**

To help students acclimate culturally and professionally to the host country's environment and the university life there. Modular sessions, as described below, aim to sensitize students w.r.t soft skills required for successfully transforming into global engineering professionals.

- Goal Setting & Introduction
- Employability Related Communication
- Etiquette & Behaviour
- Customization & Adaptation in the Host Country  
Boot Camp (a week before onboarding)

- *Students are not charged additionally for any of these programs.*
- *The programs are conducted not to disturb the overall academic equilibrium.*
- *Trainers are carefully selected based on domain competence/expertise/ experience.*
- *Prior registration is mandatory for all programs.*

- Students can reach out to the CTD team at [training@thapar.edu](mailto:training@thapar.edu).
- The Centre is active on social media platforms like Instagram and LinkedIn.

## CENTRE FOR INDUSTRIAL LIAISON AND PLACEMENT (CILP)

CILP is the interface between TIET and the Industry for various engagements like campus placement, internships, expert talks, research collaborations and consultancy, industry inputs in curriculum and other mutually beneficial activities.

### ACTIVITIES OF CILP

- **Campus Recruitment**

CILP facilitates processes involve in campus recruitment by national and international employers of the students. The past five years' record of UG student's placement is given in the chart below.

- **Internship in Industry of six/twelve months under project semester**

All students across BE/B.Tech. Engineering disciplines are required to spend a full semester in the industry completing an industrial project under the joint supervision of industry supervisors and TIET faculty members. The PG students, however, undergo one full year's internship in the industry completing their industrial project.

Similarly, the students of MCA undergo a Systems Development Project (SDP) of sixteen-week duration & the students of M.Sc. undergo six-week summer training in the industry. This provides a system of education that formally integrates academic studies with related work exposure.

- **Summer Internships**

Summer internships which are after 2<sup>nd</sup> / 3<sup>rd</sup> year are optional and give an opportunity to student to get exposure of practical industrial environment. Top-notch companies have been using this as an opportunity to access the student and give a Pre-Placement Offers (PPOs) before the start of the campus season.

- **Industry Institute Interactions**

Interactions between industries and academia for curriculum development, expert lectures and workshops, research collaborations, resource sharing for the benefit of the students are also in the preview of CILP.

### OUR PROMINANT RECRUITERS

S#	Companies	S#	Companies
1	22nd Century Software Solutions	51	ION Trading India Private Limited
2	Accenture India Private Limited	52	ISGEC Heavy Engineering Ltd
3	Addverb Technologies Private Limited	53	JPMorgan Chase & Co.
4	Advantage Club (Work Advantage)	54	JSW Group
5	Amadeus Software Labs India Pvt Ltd	55	Juniper Networks, Inc.
6	Adobe Systems	56	Jindal Saw Ltd
7	Amdocs Development Center India LLP	57	Larsen & Toubro Limited
8	American Express	58	Lenskart
9	Anand Automotive Private Limited	59	Make My Trip India Private Limited
10	Apple	60	MAQ Software
11	Arcesium India Private Ltd	61	Maruti Suzuki India Limited
12	Asian Paints Limited	62	Mahindra & Mahindra Ltd.

S#	Companies	S#	Companies
13	Amazon India	63	Microsoft India Private Limited
14	Axis Bank	64	MG Motor India
15	Axxela	65	MSB Digital Pvt. Ltd
16	Bajaj Auto Limited	66	Mylo
17	Bain & Company	67	National Australia Bank Limited
18	Barclays	68	NatWest (Royal Bank Of Scotland)
19	Bharti Airtel Limited	69	Nokia India
20	BlackRock	70	NVIDIA Corporation
21	Blue Yonder, Inc.(JDA Software)	71	NXP Semiconductors
22	Bosch	72	Orient Electric Limited
23	CaaStle (Gwynnie Bee)	73	Optum
24	Continental Device India Ltd	74	Panasonic Life Solutions
25	Commvault Systems, Inc.	75	ProcDNA
26	Cisco Systems, Inc.	76	Providence Global Innovation Center
27	Cloudera, Inc.	77	Qualcomm
28	D. E. Shaw India Private Limited	78	Reliance Industries Ltd.
29	Dell Technologies	79	Rubrik
30	Deloitte Consulting India Pvt. Ltd.	80	Salesforce, Inc.
31	ElectricPe	81	Samsung Engineering India
32	Ernst & Young Private Limited	82	Samsung Research Institute Noida
33	Ericsson India Global Services Private Ltd.	83	Schlumberger Limited
34	Fastenal Company	84	Schneider Electric
35	Fractal Analytics	85	Siemens EDA (India) Private Limited
36	Futures First Info Services Pvt Ltd	86	SRF Limited
37	Google	87	STMicroelectronics
38	Gartner Inc	88	Stryker Global Technology Center
39	Gujarat Fluorochemicals Limited	89	Synopsys
40	GEP Worldwide	90	Tata Consultancy Services Limited
41	Havells India Ltd.	91	Tata Motors Limited
42	Hero MotoCorp Ltd.	92	Tata Power Delhi Distribution Limited
43	Honda Cars India Ltd.	93	Texas Instruments
44	HPCL-Mittal Energy Ltd	94	Turing
45	HCL Technologies Ltd	95	TVS Motor Company
46	HSBC Software Development India	96	VE Commercial Vehicles Ltd.
47	Incedo Inc.	97	Western Digital Corporation
48	IOL Chemicals and Pharmaceuticals	98	zHealthHEHR
49	Intel Technology India Pvt. Ltd.	99	Zscaler Inc
50	Intuit Inc	100	ZS Associates India Pvt Ltd.

## TRANSLATIONAL RESEARCH @ TIET

Research at TIET is at the apex of the institute's long-term strategic plan, which is to be a leading research-focused and teaching-intensive institute in India. Research is a central theme of the institution's mission. Research and innovation will facilitate academic collaborations, industrial interactions, and knowledge transfer; and provide support to academics on research funding streams, preparing bid proposals, and negotiating research contracts. The institution spends a substantial amount of its budget on research activities. This creates numerous opportunities for graduate and undergraduate students and provides a faculty with an enriching environment. In the future, the institution foresees significant growth in research activities across disciplines for interdisciplinary and multidisciplinary research. Individual academicians at the institution have developed their own plans indicating the potential areas of research, infrastructure requirement, and possibilities of collaboration with leading academics at global/national universities/organizations and industry. In addition to the department-specific research, TIET has also identified key cross-cutting research themes for setting up multiple Centres of Excellence (COEs).



Going forward the institution aims to make targeted investments to develop new interdisciplinary and inter-institutional collaborations to establish six centres of excellence (COE) across identified research themes. TIET is also undertaking multiple other initiatives to build research excellence focused on solving real-world problems and providing students with experiential learning for better application and analytical skills. TIET has already established four chairs to lead the Food Security, Emerging Materials, Advanced Manufacturing Centre, and Data Science Centre. The food security chair is led by Prof Nir Ohad from Tel Aviv University and the Emerging Materials Chair is led by Prof Roop Mahajan from Virginia Tech. The third chair lead by Prof Noam Eliaz from Tel Aviv University to lead the Advanced Manufacturing Centre. The fourth centre for Data Science is led by Prof Tim Miller from University of Queensland. All four Chairs are eminent professors with wide research experience in their fields. The other two centres on Energy and Environment and Quantum Computing will be operational very soon in collaboration with University of New South Wales, and Trinity College Dublin, respectively.