

# BRIEF INTRODUCTION

## 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 23rd in 'Engineering' category in the top Engineering Institutes in the country,
- Ranked 26th in 'University' category,
- Ranked 45th in 'Overall' category,
- Ranked 42nd in 'Management' category,
- Ranked 38th in 'Research' category.

### Times Higher Education Rankings

- Ranked in the "501-600" bracket worldwide among 1662 institutions and '5th' amongst 71 institutions ranked within India in the Times Higher Education World University Rankings 2022.
- **THE World University Rankings 2022 by Subject**
  - Computer Science:** 301-400 bracket worldwide.
  - Engineering:** 401-500 bracket worldwide.
- Ranked at 160<sup>th</sup> position in the Times Higher Education Emerging Economies Rankings 2022.

- Ranked at 144th position in Asia in the Times Higher Education Asia University Rankings 2021.

## QS Rankings

- Ranked in the “1001-1200” bracket worldwide and joint 23rd among 35 institutes within India in QS World University Rankings 2022.
- Ranked in the “281-290” bracket and Joint 39th among 117 institutions in India, 6<sup>th</sup> among private institutions in India in QS Asia University Rankings 2022.
- **QS World University Rankings by Subject 2021**

**Engineering – Electrical & Electronic:** 451-500 bracket worldwide

**Computer Science & Information Systems:** 551-600 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) Civil Engineering Department
- (iii) Computer Science & Engineering Department
- (iv) Department of Biotechnology
- (v) Electrical & Instrumentation Engineering Department
- (vi) Electronics & Communication Engineering Department
- (vii) Mechanical Engineering Department
- (viii) Continuing Education

### B. SCHOOLS

- (i) Chemistry & Bio-Chemistry
- (ii) Energy and Environment
- (iii) Humanities and Social Sciences
- (iv) Mathematics
- (v) Physics & Materials Science
- (vi) L M Thapar School of Management (Off campus)
- (vii) 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**

For an academic institution, this is very important to recruit quality faculty. In TIET, faculty members are recruited through a rigorous selection process. This process includes the opinion of Academic Units and also that of outside experts. This is even more important to train and retain this key resource. We have taken a number of steps to retain the faculty and have entered into an MOU with Trinity College, Dublin to train the faculty members on state-of-art learning practices and pedagogies. For this purpose, we have established a Centre for Academic Practices and Student Learning at our Campus, and plan to get all the faculty members certified on these practices by experts from TCD. We hope to bring sweeping changes in the methodologies adopted by faculty as of now and are confident that this initiative shall help faculty members importing better learning to our students, shall help faculty members to involve students at all levels in their research endeavours and thus producing graduates who can serve our country better.

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

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

- Virginia Tech, United States of America
- Trinity College Dublin (TCD),
- University of Groningen, Netherlands,
- University of New South Wales,
- University of Queensland, Australia,
- University of Toledo, United States of America,
- Tel Aviv University, Israel,
- University of Leeds, United Kingdom.
- Miami University,
- University of La Rochelle,
- University of Malta,
- University of Twente,
- University of Angers,
- Temple University

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

- Tata Motors,
- Tata Consultancy Services,
- Infosys,
- PepsiCo India holding Pvt. Ltd.,
- NVIDIA graphics Pvt. Ltd.,
- Samsung R&D Institute India-Bangalore Pvt. Ltd.,
- MEITY (GOI) for Science and Technology Entrepreneurship Park,
- Future First academics,
- Oracle Academy,
- NSIC,
- NXP,
- n+i

## ALUMNI UPDATE

Alumni of an Institute are its greatest and most cherished assets. Whether one has graduated a year ago, or entered the portals of this great Institute more than 50 years ago, each one of the **Thaparian** possesses something of incredible value to the Institute. Many of our alumni are highly placed in India and abroad. From being on the boards of multi-nationals to serving in the Indian Civil Services, **Thaparians** have always made their alma mater proud. Thapar Institute of Engineering & Technology is truly proud of their achievements in all walks of life.

### **The Thapar Institute of Engineering & Technology also houses Alumni Relations/Association**

Office which acts as a liaison between the Institute and its alumnus and also maintains the website of TIET Alumni (<http://thapar.edu/academics/centers/alumni-relations-link1>) and also maintaining liaison through various social networks like Facebook, LinkedIn, WhatsApp, etc. The Thaparian web link provides a platform to alumni to interact and to keep themselves abreast of the latest developments on campus.

The office also maintains data base of more than **24,000 alumni**. The office organizes various Alumni meets such as Alumni/Founders day every year in the month of October to welcome alumni from all batches. Re-Unions of Golden, Silver Jubilee batches are also being organized every year. In addition to this, various International meets are also organised, the latest one Middle east meet being held in Dubai. Other activities include invited lectures by distinguished Alumni, organizing of "The Alumni in The Making" wherein the fresh graduates are welcomed in the alumni fold. Start-up conclave in 2016 was also initiated through the office, in collaboration with entrepreneurship development Cell and LM Thapar School of Management. Alumni also assist in helping UG and PG graduates for Internships and Training.

## CENTRE FOR TRAINING & DEVELOPMENT (CTD)

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

- Ensure better placements
- Ensure a better 'fit' in the Industry & the Society.

### **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 counselling 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 customizing training programs
- Administering and delivering standardized tests like the GMAT (Pearson Testing) with technical support from Centre for Information & Technology Management.

Apart from having a strong student centric vision & focus as manifested in the activities above, CTD also facilitates the conduct of training programs for staff- both teaching and non-teaching. These programs encompass both functional and behavioural elements of

development, ensuring enhanced productivity at work place. CTD also oversees similar functions for the LMT School of Management at Dera Bassi, where it actively liaises with its 'Head- Admissions & Placement' to plan and execute various training programs.

Centre for Training & Development has conceptualized, designed and implemented a series of training programs. The immediate objective of these programs is to brace students for campus placements and enable them to secure their dream job! In the long run it aims to acclimatize students to the Industry environment ensuring them to cope up with the challenges in the professional set-up.

#### **I. Corporate Readiness Training Programs (CRTP)**

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

##### ✓ **Campus to Corporate (C2C)**

The Centre recently launched an annual online placement training drive, 'CAMPUS TO CORPORATE (C2C)', for students in different years of study. The program is delivered through the Telegram app. Three broad modules are covered here depending on the student's year of study/course: General Management & Communication Skills, Aptitude Skills and Placement Readiness. Apart from this, a daily coverage of Current Affairs marks the beginning of the day! *Inputs are provided on a regular basis, throughout the year.*

##### ✓ **Placemantor**

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.

##### ✓ **Skill Enhancer**

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 customized improvement plan
- One-on-one Resume Building sessions (weekly)

##### ✓ **Manthan**

This is conducted at the beginning of the second semester (UG)/ second semester (PG).

##### **Program Features:**

- Comprehensive workshops on employability skills
- Skill Assessment Test (SAT) with detailed interpretation/ feedback

##### ✓ **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 a comprehensive performance feedback, enabling them to bridge the between 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 (CSP)

These programs are designed for students targeting discrete career paths upon completion of UG/PG engineering course. Based on popular student feedback and trend analysis, the following programs are being currently offered:

✓ **International Admission Support**

This program is relevant for students seeking admission to MS/MBA programs abroad (US/Canada/Australia/Germany/UK/Singapore being the popular destinations).

**Program Features:**

- Shortlisting of programs/schools
- Profile building & mapping
- Preparing Statement of Purpose (SoP)
- Preparing Letter of Recommendation (LoR)
- Interview Preparation
- Visa Counseling

✓ **MaxPrep GRE/GMAT**

This program is relevant for students writing the GRE/GMAT test for admission to international MS/MBA programs respectively.

**Program Features:**

- Fundamental concepts that are a must know for tackling the GRE/GMAT questions
- Workshops and section/full length tests
- Personalized admission counseling
- Comprehensive study material and online support

✓ **MaxPrep GATE**

This program is relevant for students writing the GATE exam for admission to MTech/MS programs in India and/or students seeking to join public sector organizations.

**Program Features:**

- Concept enabled study course to facilitate self-study after classroom lectures
- Application sessions and strategy workshops

- Regular doubt solving sessions
- Comprehensive test series with feedback sessions

✓ **MaxPrep IELTS**

This program is relevant for students seeking to study/settle abroad.

**Program Features:**

- Concept detailed study course to cover all 4 sections of the test
- Application sessions and strategy workshops
- Regular doubt solving sessions

### III. **Certificate Programs (CP)**

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 28-32 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 w.r.t the financial environment. Such a 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, power map.

### IV. **Choice Based Credit Programs (CBCP)**

These programs are offered as free electives leading to an award of academic credits for the students.

✓ **Employment Development Skills (EDS)**

This program is positioned as a free elective for UG students in their 2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> year of study. It prepares students for campus placement and industry related challenges. It includes areas like team dynamics & collaboration, emotional intelligence, leadership, managing diversity etc.

### V. **Customized Training Programs (CTP)**

These programs are conceptualized, designed and implemented as per the needs raised by particular department/school/centre. In the past such programs have been organized for students of School of Mathematics and LMTSM. The most recent program here is the 'Smart Skills Development Program' for IEP students.

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

To help students to acclimatise 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 (1 week before onboarding)
- ✓ **Employability Development skills @LMTSM**
- Inputs for making students professionally ready, encompassing both industry readiness and society readiness
  - Aimed at bracing students with the desired skills to face placement related challenges, leading to better placements
  - Modular sessions on resume building, professional networking, interview tips and techniques, various skills under the scanner during campus placement process.

### **Career Assessment Programs**

Apart from the above programs the Centre also organizes one-on-one CAREER COUNSELLING sessions through a CAREER PROFICIENCY TEST to enable students to realize their true potential. A career map is prepared for each such student with an understanding of short- and long-term goals. These sessions are conducted throughout the academic semester in student friendly time slots etc.

### **Note: -**

- Students are not charged additionally for any of these programs.
- The programs are conducted in a way so as not to disturb the overall academic equilibrium.
- Trainers are carefully selected on the basis of domain competence/expertise/experience.
- Prior registration is mandatory for all programs.
- Students can reach out to CTD team at [training@thapar.edu](mailto:training@thapar.edu). The Centre is also active on social media platforms like Instagram & Telegram.

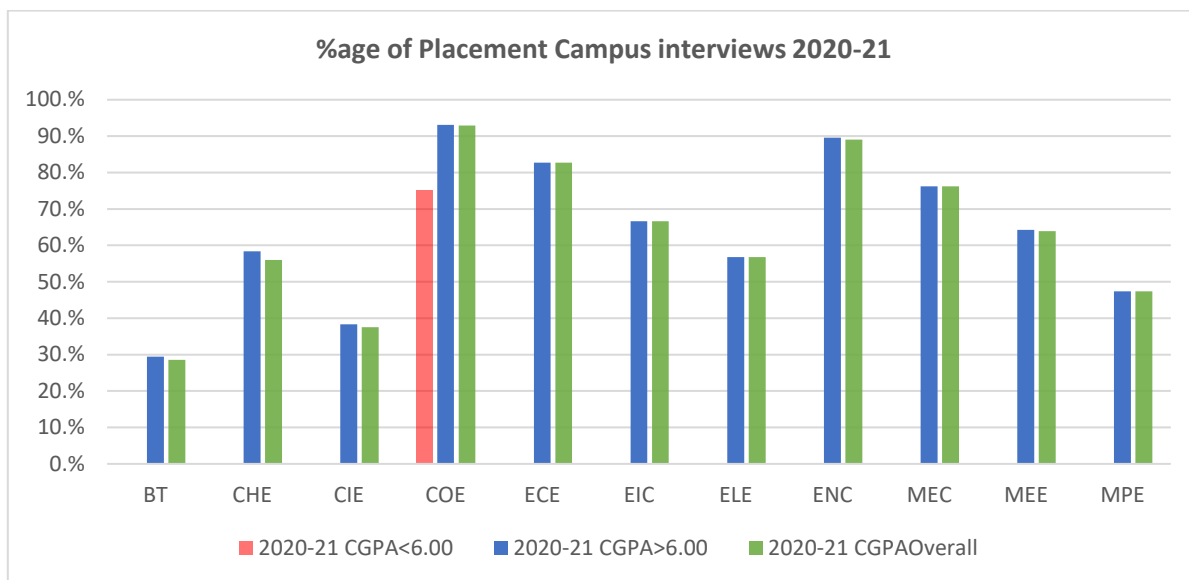
## **CENTRE FOR INDUSTRIAL LIAISON AND PLACEMENT (CILP)**

### **ACTIVITIES OF CILP**

- Campus Recruitment Programme
- Project Semester Placement of Students
- Summer Training Programme
- Industry Institute Interaction

CILP arranges campus interviews for final year UG & PG students by inviting various national and international organizations from private and public sectors including MNCs for student placements. A robust database of organizations who have been recruiting freshers from the campus over the years is maintained with CILP and continuously updated. Campus placements across UG branches for the graduating batch of 2020-21 is as per the chart here (updated up to 31-Jan-2022). Owing to the nation-wide lockdown and extension in hiring timelines due to the unexpected Covid-19 pandemic, the organisations are still continuing to hire our students of the 2021 graduating batch, hence this placement number and percentage is likely to increase further.





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. Over 362 corporates offered semester slots/Internships to our students. CILP assists in arranging semester internship slots for various engineering branches that results in Pre-Placement Offers (PPOs).

CILP also assists in arranging eight weeks' summer training for students of BE third Year Electronics and Electrical Communication, Electronics and Computers, Electronics (Instrumentation & Control), Electrical and Computer Science and Engineering disciplines. Many organizations offer PPOs to the student's basis their internship performance.

For the 2020-21 batch, 420 organizations conducted their recruitment processes offering placements to 1,203 students till 31<sup>st</sup> January 2022. Recruitment processes of another 12 organisations are underway till the time of writing this report.

### ORGANIZATIONS VISITING FOR CAMPUS RECRUITMENT

SN	Organization	SN	Organization	SN	Organization
1	ZS Associates India Pvt Ltd.	141	Phenom People Pvt.Ltd	281	OneTap, Inc
2	Arcesium India Private Ltd	142	Hashedin Technologies	282	Advantage Club (Work Advantage)
3	Royal Bank Of Scotland	143	Ferns N Petals	283	Yara Fertilisers India Pvt. Ltd.
4	Standard Chartered GBS Pvt Ltd	144	ITH Technologies	284	Sagacious IP
5	Cisco Systems, Inc.	145	Snapdeal	285	Country Delight
6	D. E. Shaw India Private Limited	146	Frugal Testing	286	Colgate-Palmolive (India) Limited
7	Optum	147	Deloitte Consulting India Pvt. Ltd.	287	Convene India Private Limited
8	Cloudera, Inc.	148	BlacknGreen	288	FIS
9	Frugal Testing	149	Telecom Regulatory Authority of India	289	Luminous Power Technologies
10	HyperVerge, Inc.	150	Rubrik	290	Mphasis Limited
11	Zscaler Inc	151	Intel Technology India	291	Real Time Data Services Pvt.

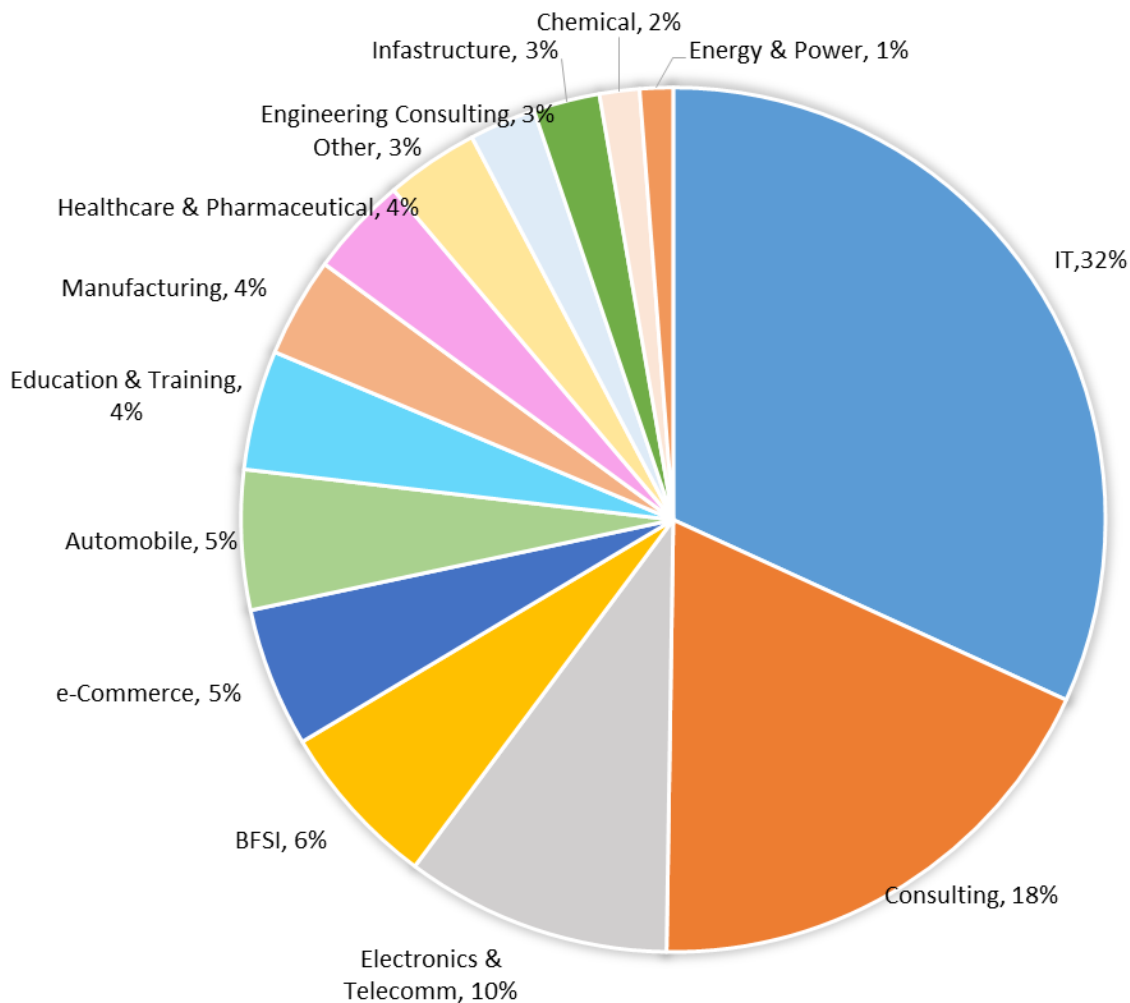
SN	Organization	SN	Organization	SN	Organization
			Pvt. Ltd.		Ltd.
12	SourceFuse Technologies	152	Reliance Industries Ltd.	292	HCL Technologies Ltd
13	Novartis	153	Dell Technologies	293	Evalueserve Private Limited
14	PharmEasy	154	Ericsson India Global Services Private Limited	294	Nestlé India
15	Gameskraft	155	Philips Innovation Centre	295	Intel Technology India Pvt. Ltd.
16	Unicommerce eSolutions Pvt Ltd	156	Nokia Solutions & Networks India Pvt. Ltd.	296	BNY Mellon
17	ARM	157	Valuechain	297	Nucleus Software Exports
18	JPMorgan Chase & Co.	158	Jungleworks	298	Samsung RI Bangalore
19	Goldman Sachs Services Pvt Ltd	159	STMicroelectronics	299	Ezy Legal
20	JPMorgan Chase & Co.	160	LG Electronics India Pvt. Ltd	300	Ericsson India Global Services Private Limited
21	Paytm	161	Stryker Global Technology Center	301	Tata Power Delhi Distribution Limited
22	Edifecs Technologies Private Limited	162	Texas Instruments	302	Orelia The Gold
23	BlueOptima	163	CSIR-Central Building Research Institute	303	Naukri.Com
24	Amadeus Software Labs India Pvt Ltd	164	Indian Institute of Technology, Mandi	304	Accenture India Private Limited
25	Sabre Corporation	165	Perceptive Ideas Consulting Engineers Private Limited	305	Winshuttle Software
26	ION Trading India Private Limited	166	Voyants Solutions	306	SYMB Technologies
27	Futures First Info Services Pvt Ltd	167	YFC Projects Pvt. Ltd.	307	Hexaview Technologies, Inc
28	Smart Energy Water	168	Qualcomm	308	Tata Technologies
29	VMware Software India Pvt. Ltd.	169	NXP Semiconductors	309	Tata Technologies
30	Standard Chartered GBS Pvt Ltd	170	Shivalik Solid Waste Management Ltd.	310	FitnessMana
31	Deloitte Consulting India Pvt. Ltd.	171	Vardan EnviroNet	311	AuthBridge
32	American Express	172	Paramarsh	312	Gramfactory Warehouse
33	Texas Instruments	173	TPF GETINSA EUROESTUDIOS	313	Pine Labs
34	AscentX Software Development Services	174	Ness Digital Engineering	314	Docmation Technologies Pvt Ltd
35	Hevo Data Inc.	175	Avalara Technologies Private Limited	315	Uolo EdTech Private Limited
36	Increff	176	GrapeCity India Private Limited	316	Altudo (Edynamic)
37	BlackRock	177	SGM Software Pvt. Ltd (Octro)	317	Strategic Research Insights
38	Providence Global Innovation Center	178	Samsung SDS India	318	Max Speciality Films Ltd
39	Rubrik	179	Samsung SDS India	319	Unicorn Tech Media (Vansun Mediatech Pvt Ltd.)
40	zHealthHEHR	180	Apple	320	Paxcom India Pvt. Ltd.
41	Alstom Transport India Limited	181	Wipro Ltd.	321	SAP Labs
42	Mentor Graphics	182	Flipkart	322	Cerebranium
43	MediaTek India Technology Pvt. Ltd.	183	McKinsey & Company	323	Runaya (Vedanta Group)
44	Editorialist Yx	184	American Express	324	Magicpin (Samast Technologies)
45	Comviva Technologies Ltd.	185	Endoenergy Systems Pvt. Ltd.	325	GlobalLogic
46	Oracle India Private Limited	186	JTG E-Business Software Pvt Ltd (Josh Technology	326	Tata Consultancy Services Limited

SN	Organization	SN	Organization	SN	Organization
			Group)		
47	Oyo Rooms	187	ThinkNext Technologies Pvt. Ltd.	327	Attentive AI Solutions Pvt Ltd
48	FITSO (Jogo Technologies Private Ltd)	188	Magicpin (Samast Technologies)	328	Flick2Know Technologies Private Limited
49	Wheelseye Technology India Private Limited	189	Havells India Ltd.	329	Pristyn Care
50	Ericsson India Global Services Private Limited	190	Vedanta Limited	330	Fareportal India Pvt. Ltd.
51	Informatica Corporation	191	Lido Learning	331	Xorosoft Technologies
52	GEP Worldwide	192	Yamaha Motor Solutions India Private Limited	332	Snapdeal
53	Coviam Technologies (Engati)	193	Advantage Club (Work Advantage)	333	Astute Giraffe
54	Amazon India	194	Absolutdata Research & Analytics Solutions Private Limited	334	Tata Consultancy Services Limited
55	Microsoft India Private Limited	195	VE Commercial Vehicles Ltd.	335	NXP Semiconductors
56	Amdocs Development Center India LLP	196	VE Commercial Vehicles Ltd.	336	Bunge Limited
57	Xebia	197	Publicis Sapient (Sapient Nitro)	337	JPMorgan Chase & Co.
58	Naukri.Com	198	Mercer Consulting India	338	Innovaccer
59	Blue Yonder, Inc.(JDA Software)	199	Zscaler Inc	339	InsideView
60	Capgemini Technology Services India Limited	200	Xebia	340	Limechat
61	Capgemini Technology Services India Limited	201	Filo	341	Aakash Institute
62	Western Digital Corporation (Sandisk Corporation)	202	ANAND Automotive Private Limited	342	Onebanc Technologies Pvt Ltd
63	Bain & Company	203	Barco Electronic Systems Pvt. Ltd.	343	Aristocrat Technologies India Pvt. Ltd.
64	Synopsys	204	JPMorgan Chase & Co.	344	Flipkart
65	Arista Networks	205	Siemens Industry Software (I) Pvt. Ltd.	345	Wipro Ltd.
66	CodeNation Innovation Labs	206	Go Digit General Insurance Limited	346	D. E. Shaw India Private Limited
67	JPMorgan Chase & Co.	207	Mamaearth	347	OYE Rickshaw
68	Optum	208	NXP Semiconductors	348	AMD (Advanced Micro Devices, Inc.)
69	Bajaj Auto Limited	209	Altudo (Edynamic)	349	Absolutdata Research & Analytics Solutions Private Limited
70	Nagarro Software Pvt. Ltd	210	Unicorn Tech Media (Vansun Mediatech Pvt Ltd.)	350	Indosaw Industrial Products Pvt.Ltd.
71	GreyB Services	211	HUVIAiR Technologies Private Limited	351	Indian Oil Corporation Limited
72	Apple	212	Keysight Technologies	352	Wissen Technology
73	Tata Consultancy Services Limited	213	DigiValet	353	Idea Foundation
74	Hono HR	214	Apple	354	PharmEasy
75	Mylo	215	PepsiCo, Inc.	355	Jacobs Engineering Group Inc
76	Verzeo	216	Siemens Healthineers (Siemens Health Care)	356	Siemens Digital Industries Software
77	Flipkart	217	Docquity	357	To The New (TTN)
78	JPMorgan Chase & Co.	218	Cloud Mentor	358	HCL Technologies Ltd
79	Thales Group	219	Atom	359	TT Consultants
80	VT NetzWelt Pvt Ltd	220	Education Culture Pvt Ltd	360	KIET Group of Institutions

SN	Organization	SN	Organization	SN	Organization
81	Salesforce.com	221	MadOverGames	361	Viacom 18 Media Pvt. Limited
82	Innow8 Apps	222	Fareportal India Pvt. Ltd.	362	Wipro Ltd.
83	ZS Associates India Pvt Ltd.	223	Bravura Solutions	363	GauGau
84	ZS Associates India Pvt Ltd.	224	Uengage Services Pvt.Ltd	364	Videojet Technologies (Danaher company)
85	NXP Semiconductors	225	IPexcel Services Private Ltd.	365	HFCL Limited
86	Axis Bank	226	AB InBev	366	BizMerlin
87	CaaSle (Gwynnie Bee)	227	WileyNXT	367	ZS Associates India Pvt Ltd.
88	NXP Semiconductors	228	Oracle India Private Limited	368	Skuad
89	Indegene	229	ZS Associates India Pvt Ltd.	369	Cavisson System, Inc.
90	EXL Service	230	Primenumbers Technologies	370	The Smart Cube Limited
91	InfoObjects Inc	231	The Solar Labs	371	ReNew Power Private Limited
92	VectoScalar Technologies Pvt Ltd	232	Chai Point (Mountain Trail Foods Pvt Ltd)	372	NEC Corporation India
93	Evalueserve Private Limited	233	IndiaMART InterMESH Ltd.	373	Collegedunia
94	ISGEC Heavy Engineering Ltd	234	NutriPal	374	CPA Global
95	Naukri.Com	235	Hanu Software Solutions	375	Dolcera Information Technology Services Private Limited
96	MAQ Software	236	JSW Steel Limited	376	Uolo EdTech Private Limited
97	Optum	237	B&S Engineering Consultants Pvt. Ltd.	377	Target Corporation
98	Samsung Research Institute Noida	238	Hero Motocorp Ltd.	378	Asian Paints Limited
99	Lumiq	239	Magicpin (Samast Technologies)	379	Farziengineer
100	Amigoz	240	Gen X Info Technologies Pvt. Ltd.	380	Walmart Labs
101	Reliance Jio	241	Delhivery Pvt Ltd	381	Smart Energy Water
102	Reliance Jio	242	Interra Systems India Pvt. Ltd.	382	IndiaMART InterMESH Ltd.
103	Siemens India	243	SiFive, Inc.	383	Zoxima Solutions Pvt. Ltd
104	Asian Paints Limited	244	Adloid.in	384	HCL Technologies Ltd
105	Stryker Global Technology Center	245	Cyfuture India Pvt Ltd	385	Interra Systems India Pvt. Ltd.
106	LUMEN (CenturyLink Technologies)	246	Bulls Eye	386	Jay Bharat Maruti Ltd. (JBM)
107	Saint Gobain India Pvt. Ltd.	247	KPIT Technologies Limited	387	Clicbrics
108	Quantiphi Inc	248	Tata Power Limited	388	Mercer Consulting India
109	InvestWell (Excel Net Solutions Pvt Ltd)	249	Apptunix	389	Sage
110	White Panda	250	MAQ Software	390	VLink
111	Hero Motocorp Ltd.	251	ExMyB	391	Kearney
112	Oracle India Private Limited	252	Ericsson India Global Services Private Limited	392	C-DAC
113	Whirlpool of India Ltd	253	Minda Corporation Ltd	393	SocialBoat
114	Tech Mahindra Limited	254	Addverb Technologies Private Limited	394	Samsung Research Institute Noida
115	ANAND Automotive Private Limited	255	Hindustan Unilever	395	Bulls Eye
116	MotherSumi Infotech & Designs Limited (MIND)	256	NTT DATA Corporation	396	PTC

SN	Organization	SN	Organization	SN	Organization
117	RBL Bank	257	Havells India Ltd.	397	Telecom Regulatory Authority of India
118	Think & Learn Pvt. Ltd.	258	PureSoftware	398	GSPANN Technology
119	Schneider Electric India	259	DevKraft Technologies	399	Pepcoding
120	Think & Learn Pvt. Ltd.	260	Samsung Research Institute Delhi	400	Attentive AI Solutions Pvt Ltd
121	Thermax Limited	261	Dolcera Information Technology Services Private Limited	401	Arista Networks
122	Maruti Suzuki India Limited	262	Onebanc Technologies Pvt Ltd	402	Sharad Projects India Limited
123	Ericsson India Global Services Private Limited	263	Snapdeal	403	Edifecs Technologies Private Limited
124	Exicom Tele-Systems Limited	264	Growisto	404	Board Infinity
125	VirtuBox Infotech Pvt Ltd	265	Jindal Steel & Power Limited	405	MothersonSumi Infotech & Designs Limited (MIND)
126	Wipro Ltd.	266	Reliance Retail	406	Monthbleu Technologues Private Limited
127	Rivigo	267	Fareportal India Pvt. Ltd.	407	Quadeye
128	DENSO International India Pvt.Ltd.	268	Trantor Software Pvt. Ltd.	408	Vodafone Idea Limited
129	LIBSYS Ltd.	269	ACT Fibernet	409	Coding Ninjas
130	Infosys Limited	270	Snapdeal	410	Maventic innovation Solution Pvt. Ltd.
131	PricewaterhouseCoopers Private Limited	271	Steel Strips Wheels Ltd.	411	EMCO Electrodyne (P) Ltd.
132	TT Consultants	272	Diala Bank	412	VE Commercial Vehicles Ltd.
133	Atlan	273	InterviewBit	413	Bank of America
134	FLOCK Software Private Limited( Directi)	274	Accenture India Private Limited	414	General Highways And Infracon Pvt. Ltd.
135	Media.net	275	Gujarat State Petronet Limited	415	Bluecraft Agro Pvt. Ltd.
136	KPMG Global Services	276	Somany home Innovation limited (Hindware)	416	Absolutdata Research & Analytics Solutions Private Limited
137	Triune Energy Services Pvt. Ltd.	277	Maruti Suzuki India Limited	417	ISGEC Heavy Engineering Ltd
138	ChicMic	278	Jay Bharat Maruti Ltd. (JBM)	418	Kandhari Beverages Pvt Ltd
139	L&T Ltd	279	Zibal Technologies Pvt. Ltd.	419	IBM India Private Limited
140	Cognizant Technology Solutions	280	QooHoo	420	Ziroh Labs

## SECTOR-WISE PLACEMENTS 2020-21



### CONTEMPORIZATION PROGRAM:

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. 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 23rd amongst top engineering institutes and universities in NIRF Ranking in 2021. 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. TIET has already embarked upon a transformation journey with the completion of the first phase of its ambitious contemporization program. It has taken multiple initiatives to fill the identified gaps, build upon its strengths, and better its peers.

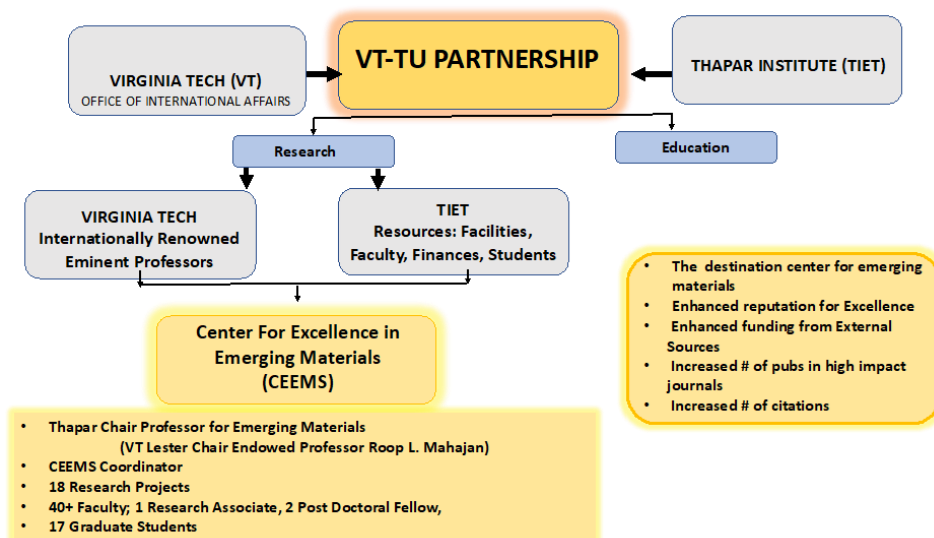
TIET has grown impressively in both size and activities during the last six decades of its existence. TIET's main campus at Patiala is spread over 250 acres. TIET believes that a well laid out and practical infrastructure is a visible differentiator for the institute – a well-functioning infrastructure allows students, faculty, and researchers to focus on their core tasks of learning and research. TIET had embarked upon a major infrastructure upgrade project at the Patiala campus since 2015 to support the growth in a number of students, as

well as to give shape to its vision of a world-class university with world-class infrastructure. With the 2nd phase of the growth focussing on continuous improvement, it is imperative to develop more infrastructure. The institute has already initiated the 2nd phase of its growth program that will continue for another five years. This phase puts major emphasis on building on our already impressive research expertise.

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 three chairs to lead the Food Security, Emerging Materials, and Advanced Manufacturing Centres. The food security chair is led by Prof Yosi Shacham from Tel Aviv University and the Emerging Materials Chair is led by Prof Roop Mahajan from Virginia Tech. The third chair was established recently with the appointment of Prof Noam Eliaz from Tel Aviv University to lead the Advanced Manufacturing Centre. All three Chairs are eminent professors with wide research experience in their fields. Two of these centres are already operational at Patiala and both Chair Professors have followed similar strategies in running their respective centres. The Advanced Materials Centre will become operational in 2022-2023. As the 6 CoEs get established, it is expected that close to 200 academic members of TIET staff, 100 Postdoc or Ph.D. students would be working in these centres during the next five years.

### TIET-VT Centre of Excellence – Emerging Material



Intense research in recent years has culminated in rapid progress in science and technology that affects every sphere of human life. The development of multifunctional materials and miniaturization of devices have been the keys to this remarkable stride. While our understanding of the fundamentals of materials continues to improve, the techniques and instruments to study and design them become more complex and challenging. It is only through sophisticated instrumentation we know of materials what we know now. It is important that the multifunctional materials be conditioned to possess diverse properties; the analysis, characterization, and establishing operational mechanisms and reliability of the systems are equally critical and thus, the role of the analytical instruments becomes even more inevitable. To achieve these goals, TIET has established a "Centre of Excellence in Materials Research" at TIET, Patiala. This Centre is in line with the long-term goals of the institution to improve the quality of research at TIET and bring it to a level that is acclaimed internationally.

CEEMS' Thrust Area and their leadership teams:

Thrust Area	Title
1	Coal-derived graphene-x (graphene oxide, reduced graphene oxide, graphene quantum dots and other derivatives).
2	Graphene-x-polymer nanocomposites, with a focus on environmentally friendly applications.
3	Bio-x (molecular and cellular biology, and biotechnology) to develop environment-friendly alternatives to fossil fuels and plastics, diagnostic and drug delivery and treatment tools, and higher yielding and nutrient rich crop-plants.
4	Exploratory research to capture high-risk, high-reward basic and applied research crosscutting the first three thrust areas.
5	Computational and Simulation (a core capability in recognition of the important role played by scientific computation as the third leg of learning and research).

**TIET-TAU Centre Of Excellence - Food Security**

With over 7 billion mouths to feed globally, ensuring a secure supply of food is a burgeoning and critical challenge for scientists and policymakers alike. Over 1 billion people are currently suffering from malnutrition, while another 2 billion are either undernourished or actually suffering from an excess of caloric intake due to a short supply of healthy food. The demand for energy is rising at the same time, thus increasing pressure on agriculture to grow biofuel as well as food. In India, the combination of growing population, urbanization, and rising of living standards results in an increasing demand for food while at the very same time arable land and resources available to agricultural use are both declining. Providing long-term solutions for these critical issues requires not only advances in the biological and chemical sciences but also a re-evaluation of strategic business issues, as it relates to food policy.



It is in this context that TIET in association with Tel-Aviv University (TAU), has set up a new interdisciplinary centre. This centre has brought together researchers from diverse academic disciplines to promote innovative research, forge ties with professionals and academics around the world, and prepare the next generation of scientists and policymakers to guide global food security issues in the years to come. This Centre is co-located on the Patiala campus at TIET and in TAU and has a major partnership with Punjab Agriculture University. This unique centre is already bringing together leading Indian and Israeli scientists and policy experts to further the important field of Food Security.

### Objectives

The Centre provides innovative solutions for the critical issue of food security and agricultural development of India and the world at large. The overarching mission of the centre is to link the three collaborating institutions, to foster closer ties at the national level between Israel and India, and to provide a viable interface between industry and academia. The strength of the centre meshes the established Israeli expertise in innovative agriculture and business practices with the growing expertise and abilities of India. These together with the global agriculture industry leadership of the TIET will equip a new generation of specialists, both future academics and industry leaders, with the knowledge to develop and implement a range of innovative solutions for ensuring a sustainable and nutritious supply of food, while preserving the environment and ensure the development of TIET as a national leader in Food Security Studies. The centre will set its sights on becoming a recognized hub for agricultural research, training, and education.

The center works closely with the farmers and villagers. Under this university has established Digital Villages, they develop and provide digital solutions to the farmers. The center also works in the area of enhanced treatment of wastewater without energy investment and biofuel production. Another major area of work under this center is the development of biosensor platforms and the development of affordable processing technologies for the mitigation of post-harvest losses. The following projects are undergoing at the centre: Digital Villages: A Data-Driven Approach to Precision Agriculture in Small Farms, Post harvesting – Biosensor Platforms and Development of affordable Processing Technologies for mitigation of Post-Harvest losses in tropical fruits (GUAVA), Enhanced treatment of wastewater using a synergy of microalgae and microorganisms - without energy investment and biofuel production, and Developing a delivery system of CAS9/gRNA to a tissue culture of wheat and barley for genome editing of agronomic traits.

### **Centre Of Excellence - Advanced Manufacturing**

TIET has agreed to fund a Chair Professor position in Advanced Manufacturing. The Chair is intended to contribute to the development of a research culture at TIET and support the establishment of a Centre of Excellence in TIET. TIET has formally offered the Chair to Prof Noam Eliaz who is an internationally recognized scholar, with an excellent record of collaboration with industry, raising research funding, mentoring of academic staff and post-doctoral researchers, and supervision of research students. The whole emphasis is proposed to be on applied research working with industry, research laboratories, hospitals, Space Applications.

- Biomedical Applications – Implants, hospitals
- Automotive Applications
- Jewellery
- Space Programs and Defence Labs
- Department of Heavy Industries