

**Annexure 10.1.0**

Institutional Strategic Plan and its Effective Implementation and Monitoring

## 1. Preamble

The present age Universities are becoming wise to various strategies and striving to deliver top quality education globally. 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 64+ years of sparkling excellence. Its portals are a testimony to the making of professionals whose brilliance have 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 2020. It is amongst the Top 3 Private Engineering colleges in the same list. TIET is determined to move up the ranking ladder by excelling in all spheres of teaching, research and placements. TIET has grown impressively in both size and activities during the last six decades of its existence. At present TIET is amongst the top few Indian private universities who are recognised among the academic world and global rankings. TIET has already embarked upon a transformation journey with multiple initiatives to fill the identified gaps, build upon its strengths and beat its competition.

This version of the strategic plan will be in operation for the next five years (2021 to 2025) and cover the following aspects of its growth journey:

1. Student Intake
2. Faculty Hiring
3. Academic Infrastructure
4. Student and Faculty Residences
5. Placements and Overall Student Experience
6. Scholarships
7. Revenue and Cash Flows
8. ERP
9. Research Plan

## 2. Student Intake

TIET already has a total student strength of over 10700. Over the next five years, the institute will be growing at a steady pace and will be able to cater to 15000+ students. The table below summarises planned growth across various levels over the next five years. This growth will be achieved by both strengthening existing programs and bringing in new programs (eg Liberal Arts & Sciences, Law etc) that meet industry requirements. One of the overarching aims remain to improve the current undergraduate to postgraduate ratio and admit more PhD students to its campus for diversification among students over the next five years. This is easier said than done as we have struggled to fill our existing sanctioned strength in most PG programs. Variety of actions have been taken including a

confirmed scholarship to even non-GATE students, but to no avail. Fee rationalization with peers for both PG and PhD programs may help. However, we are leaving this topic for broader policy discussions.

Table 2B provides the number of students admitted in different PG programs during the last five years. Only three programs out of 22 PG programs offered had more than 85% admission intake during these five years. The best intake numbers have been 413 in 2016 and declining since then. The intake numbers did improve in 2020 (403) but are nowhere close to the sanctioned numbers. Not filling the sanctioned intake adversely impacts our ranking (NIRF) as well as accreditation (NAAC). In view of this, it is proposed to rationalize the sanctioned intake numbers of PG programs as can be seen in Table 2B (proposed 2021).

Other steps include expansion into a variety of specializations across departments and programs with an aim to increase its student base and cater to a larger youth population. TIET will continue to take steps to establish a strong brand name and credibility that will attract students both nationally and internationally.

The increase in enrolment at the UG level will primarily happen in CSE and ENC programs in engineering besides the growth in SLAS. The four variants of CSED programs will be raised to 1860 from the present 1140 over the next five years. Similarly, the intake in ECED programs will be raised to 540 from the present 390 and in EIED the Electrical & Computers Program will increase by 60 in 2025. It is proposed to drop the Mechanical Engineering (Production) program and add these seats to core B.E. Mechanical Engineering Program. The SLAS numbers will reach 490 by 2025.

The LMT School of management is currently in the process of getting itself accredited to AACSB and moving school out of Derabassi to Patiala is not possible while this process is on. The School thus will remain located at Derabassi until we get AACSB accreditation. This is likely to take the next 18 to 24 months. In the meanwhile, we propose to start a new 60 student batch of MBA class at Patiala campus from 2022. Eventually, the LMTSoM may not move to Patiala at all considering the program as well as the location has gained acceptability and traction in the public perception. This decision will however, be re-visited after we achieve AACSB accreditation. Table 2 above shows a 60 seats intake in MBA program (*subject to regulatory clearances*) from 2022 and will be increased to 100 in 2023.

**Further, the integrated BE-MBA programs across some disciplines will be discontinued from 2021 admissions cycle. These seats will be added back to its parent discipline as an undergraduate engineering program.**

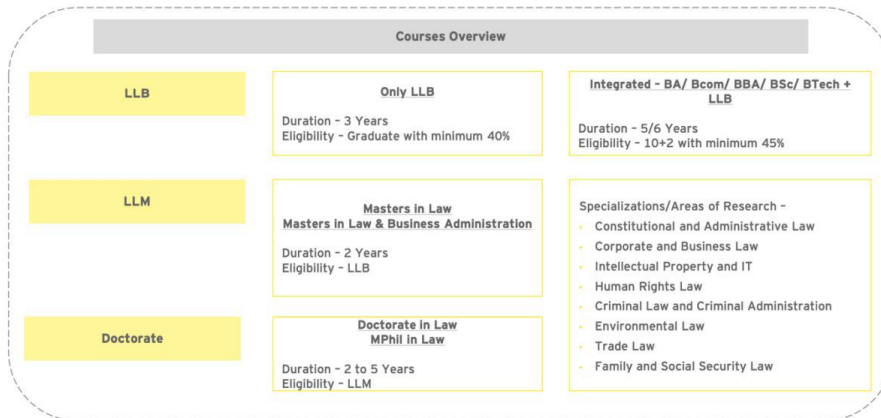
Table 2B: Program-wise proposal for PG programs

|      | Name of Program          | 2016        |          | 2017        |          | 2018        |          | 2019        |          | 2020        |          | 2021      | Total in 5 years |          |      | % filled                                   | Remarks |
|------|--------------------------|-------------|----------|-------------|----------|-------------|----------|-------------|----------|-------------|----------|-----------|------------------|----------|------|--------------------------------------------|---------|
|      |                          | Sancti oned | Ac tu al | Sanct ioned | Ac tu al | Sanct ioned | Ac tu al | Sanct ioned | Ac tu al | Sanct ioned | Ac tu al | Prop osal | Sanct ioned      | Ac tu al |      |                                            |         |
| MED  | Thermal                  | 30          | 23       | 30          | 17       | 30          | 7        | 30          | 10       | 30          | 15       | 18        | 150              | 72       | 48%  | Reduced                                    |         |
|      | CAD/CAM                  | 30          | 14       | 30          | 17       | 30          | 12       | 30          | 15       | 30          | 26       | 30        | 150              | 84       | 56%  |                                            |         |
|      | Production               | 30          | 17       | 30          | 11       | 18          | 6        | 18          | 7        | 18          | 4        | 0         | 114              | 45       | 39%  | Drop                                       |         |
| CSED | CSE                      | 60          | 57       | 60          | 52       | 60          | 50       | 60          | 49       | 60          | 60       | 60        | 300              | 268      | 89%  |                                            |         |
|      | SE                       | 30          | 21       | 30          | 10       | 30          | 0        | 30          | 0        | 30          | 30       | 18        | 150              | 61       | 41%  | Reduced                                    |         |
| CED  | STRUCTURAL               | 30          | 27       | 30          | 29       | 30          | 29       | 30          | 30       | 30          | 28       | 30        | 150              | 143      | 95%  |                                            |         |
|      | INFRA                    | 30          | 18       | 30          | 28       | 30          | 6        | 30          | 5        | 30          | 23       | 30        | 150              | 80       | 53%  |                                            |         |
| ECED | VLSI DESIGN              | 30          | 19       | 30          | 20       | 30          | 21       | 30          | 25       | 30          | 29       | 30        | 150              | 114      | 76%  |                                            |         |
|      | ECE                      | 30          | 29       | 30          | 16       | 30          | 6        | 30          | 6        | 30          | 6        | 18        | 150              | 63       | 42%  | Reduced                                    |         |
| EIED | Power Systems            | 30          | 16       | 30          | 26       | 30          | 8        | 30          | 8        | 30          | 24       | 30        | 150              | 82       | 55%  |                                            |         |
|      | EIC                      | 18          | 4        | 18          | 6        | 18          | 0        | 18          | 6        | 18          | 5        | 0         | 90               | 21       | 23%  | Drop                                       |         |
| BTD  | MSc                      | 30          | 14       | 30          | 21       | 40          | 22       | 40          | 29       | 40          | 21       | 30        | 180              | 107      | 59%  |                                            |         |
|      | Mtech                    | 30          | 16       | 30          | 9        | 18          | 4        | 18          | 11       | 18          | 18       | 18        | 114              | 58       | 51%  |                                            |         |
| CHED | Chemical                 | 30          | 5        | 30          | 0        | 18          | 0        | 18          | 0        | 18          | 5        | 0         | 114              | 10       | 9%   | Drop                                       |         |
| SHSS | MA Psychology            | 20          | 12       | 20          | 17       | 20          | 24       | 20          | 27       | 20          | 34       | 30        | 100              | 114      | 114% |                                            |         |
|      | PG Diploma in Clinical   | 0           | 0        | 0           | 0        | 0           | 8        | 20          | 4        | 20          | 0        | 0         | 60               | 12       | 20%  | Discontinued                               |         |
|      | MA Economics             | 20          | 4        | 20          | 5        | 20          | 3        | 0           | 0        | 0           | 0        | 0         | 60               | 12       | 20%  | Discontinued                               |         |
| SCBC | M.Sc. Chemistry          | 40          | 37       | 40          | 39       | 40          | 42       | 40          | 39       | 40          | 19       | 30        | 200              | 176      | 88%  |                                            |         |
|      | M.Sc. Biochemistry       | 40          | 9        | 40          | 16       | 40          | 0        | 40          | 0        | 40          | 3        | 0         | 200              | 28       | 14%  | Drop                                       |         |
| SPMS | M.Sc. (Physics)          | 40          | 38       | 40          | 31       | 40          | 23       | 40          | 16       | 40          | 14       | 20        | 200              | 122      | 61%  | Reduced                                    |         |
| SEE  | M Tech(EST)              | 18          | 12       | 18          | 0        | 18          | 7        | 18          | 13       | 18          | 10       | 18        | 90               | 42       | 47%  | Will run one of the three. SEE will decide |         |
|      | M Tech ETM               | 0           | 0        | 0           | 0        | 0           | 0        | 0           | 0        | 18          | 6        |           | 18               | 6        | 33%  |                                            |         |
| SOM  | M.Sc. (Math & Computing) | 40          | 21       | 40          | 28       | 40          | 15       | 40          | 9        | 40          | 8        | 20        | 200              | 81       | 41%  | Reduced                                    |         |
|      | M.Sc. (Maths)            | 0           | 0        | 0           | 0        | 0           | 0        | 20          | 17       | 20          | 16       | 20        | 40               | 33       | 83%  |                                            |         |
|      |                          | 656         | 413      | 656         | 398      | 630         | 293      | 650         | 326      | 668         | 404      | 450       |                  |          |      |                                            |         |

Additionally, there are plans to launch interdisciplinary courses across disciplines (Management, Humanities, Law, Pharma and Design) such as Data Sciences, LLB etc. We will also continue to grow and promote interdisciplinary research in established COEs in the fields of materials, mechatronics & robotics, big data, computer science, and food security focused at solving real world problems.

○ **New Programs (Planned)** (source EY study 2018)

□ **Law**



The legal sector in India has been enthusiastically growing during the last two decades. This has created an opportunity for many to establish law firms to provide various specialized legal services to companies that are seeking professionally managed legal services. TIET plans to set up Law Department that will offer 5 Year Integrated program in BA/BCom/BBA/BSc/B.Tech and Law (BBA-LLB). Law is a fundamental part of business and business has always been intertwined with the law and legal regulations, but these are becoming more complex. Students who study the interaction of law and with other courses can anticipate the legal needs of their companies and comprehend how laws and regulations can impact businesses in both positive and negative ways. TIET will also offer a Master Program in Law, which will produce post graduates specializing in several areas like Corporate and Financial Law and Policy, International Trade and Investment Law, Intellectual Property Rights and Technology Law etc.

□ **Architecture and Design**

With growing public awareness that urban habitats need to be neat, well-laid out living spaces, the demand for professionally trained architects is growing exponentially. Architecture is growing as one of the important professional courses in India. TIET, at some stage, plans to set up Architecture Department with state of art infrastructure. TIET plans to offer Bachelor Program in Architecture that will focus on producing Architects who can assume responsibility for planning and designing functionally sound, aesthetically appealing structures in harmony with their environment and within the boundaries of approved project budgets.

### □ Pharmacy

India has a growing pharmaceutical industry of its own. It is likely to become a competitor of global pharmacy in some key areas, and a potential partner in others. India has considerable manufacturing expertise; Indian companies are among the world leaders in the production of generics and vaccines. TIET plans to set up Pharmacy Department with state of art infrastructure including labs on Pharmaceutics, Pharmacognosy, Pharmacology, Pharmaceuticals, Microbiology, and Computer Adaptations etc. TIET will initiate all approvals required from PCI in Year 2024 which is an year before launching the courses.

The Bachelor Program in Pharmacy will be prepared considering the needs of industry, which gives more impetus for skill development. Thus, graduates can don the roles like Industrial pharmacist (Manufacturing, Packaging, Quality Control and Quality Assurance), Hospital and Community Pharmacist (Dispensing of Medicines and Counselling of patients), Sales and Distribution executive (Detailing to doctors and bulk distribution of medicines), Academic Pharmacist (training diploma in pharmacy students).

TIET will also offer a Master Program in Pharmacy, which will produce post graduates specializing in several areas like Pharmaceutical Chemistry, Drug Regulatory Affairs, Pharmacology, Pharmaceutics, Industrial Pharmacy, Pharmacognosy, Pharmaceutical Marketing, Pharmaceutical Quality Assurance and Pharmaceutical Biotechnology etc.

### □ Online Programs

TIET will take steps to offer high quality, innovative and affordable online programs across disciplines approved by regulatory bodies. Developing and delivering high-quality online learning to students will not only require the right expertise and know-how but also substantial amount of effort and resources. It is likely that TIET will partner with the right ed-tech player who has a proven track record of online learning and successful career outcomes to leapfrog in this market.

The Programs will be designed for both working professionals and students and the ed-tech partner will be co-opted to facilitate and execute the design, development, marketing and delivery of these online programs. To start with, we propose to offer the following programs

- Online Master of Business Administration (MBA) degree program designed to provide students and working professionals an active and engaging business education in an online format.
- Online Master of Computer Applications (MCA) degree program designed to provide students and working professionals an opportunity to learn cutting edge technology applications in an online format.

Apart from above proposed online programs, we will explore part-time weekend classroom mode MTech. program in Data Science and Machine Learning in Delhi NCR region for the IT and software

working professionals looking to upskill themselves in the emerging and in-demand areas of data science and machine learning. Such a program will be offered in collaboration with one of our top partner Universities (eg Virginia Tech).

The students enrolled in the online programs will be over and above the numbers projected for face-to-face teaching across the two campuses.

### □ **Setting up of a University's off centre at NCR region of Delhi**

The National Capital Region of Delhi, apart from housing the national capital is also one of the most economically vibrant regions of the country. Additionally, it is also home to one of the largest population of migrants both students coming in for higher education and professionals looking for better job opportunities. It is proposed to set-up an NCR campus of TIET.

The primary objectives of this campus are:

- Visibility and branding
- Connecting with the high schools of the region, this is going to be the most important branding activity for TIET
- Networking with Industry Leaders and their respective Corporations
- Creating a suitable engagement with industry and government bodies like FICCI/CII/NASSCOM etc.
- Furthering our relationship with regulatory authorities like UGC, AICTE and also government agencies like NAAC, NIRF
- Facilitate meaningful interaction with various government departments like MHRD, MoE for funding and allied activities.
- Enhancing PR activities with various stake holders in the region more prominently the media.
- Establishing a stronger and deeper connect with our Alumni in the region.
- Creating a mini gallery on the history of management thought
- Collaborating with other institutions of higher learning in the region.

It is proposed that this center should also have the facility to conduct the following courses

- BE Computer Science & Engineering
- Full time MBA and E-MBA
- Executive Ph.D. in management and MDPs

## **3. Faculty Hiring**

Over the past six decades TIET has been committed to its aim of delivering quality education and catering to the evolving needs to the Indian youth. With a current faculty student ratio of >24, TIET barely fulfils the academic needs of the student community.

TIET successfully recruits faculty from diverse interdisciplinary areas by providing equal opportunity with no discrimination or bias due to gender, religion, age, disability or race. The faculty recruitment criteria at TIET demands PhD with First class in the preceding degree and a good academic record throughout as the minimum qualification. The institution hires from top institutes and focuses on three aspects namely, teaching, research and industry experience of the candidate. Current faculty recruitment and retention practices include the following:

- **Hiring drives:** Regular hiring drives at NITs/IITs/IIITs for recruitment focused on top students who are in their last phase of PhD.
- **Competitive remuneration:** Remuneration rates benchmarked with top institutes in the country with additional benefits.
- **Evaluation process:** A meticulous process of evaluation that includes seminar presentation and personal interviews with a carefully chosen panel of experts is adopted. A regular position is offered only to PhD holders. To provide impetus to the effort and facilitate selection and induction of highly qualified faculty members at the entry and higher levels, TIET entertains applications throughout the year.
- **Seed fund:** The institution provides an initial seed fund for research to faculty members.

Indian institutes continue to be plagued by high faculty shortages especially private institutes. These shortages are experienced by institutions across the ranking spectrum and are not limited and specific to government or private institutes. TIET has a current student-faculty ratio of more than 24. TIET plans to achieve a faculty-student ratio of 1:15 within the span of next 5 years. Bulk of this shortfall is in CSE programs and it had been a major challenge to get good faculty in CSE until the recent past. Additional efforts at hiring good faculty will include some of the following efforts:

- **Right from the beginning and provide world class research infrastructure and facilities**
- Increase the quantum of funds as performance incentive, seed fund, and other monetary benefits
- Robust and dynamic faculty hiring procedure with a policy aimed at hiring the best for the institution
- Undertake special initiative to attract faculty from the non-academic world (industry, government, not for profits) and foreign faculty with global exposure
- Regular and more frequent hiring drives at premier institutions and large scale global advertising across mediums to recruit specialized faculty

#### 4. Infrastructure Development Plan

TIET 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 as 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 number of students, as well as to give shape to its vision of a world class university with world class infrastructure. With the 2<sup>nd</sup> phase of the growth in human capital, like students and faculty of the institute, it is imperative to develop more infrastructure. It is not only important to build new infrastructure to keep pace with the growing needs of students, faculty and the research but also essential to maintain, renovate and augment the existing ones while maintaining the character and legacy of the buildings with which the alumni could relate to. The institute has already initiated growth that will continue for another five years. In many cases it is not possible to wait for the construction of new facilities. Therefore, a combination of augmentation of existing facilities and construction of new structures will be adopted.

There is an immediate requirement of faculty offices due to increase in numbers. Large construction works have been completed in the last five years. As TIET embarks on its journey of growth towards building a capacity of 15000 students it will undertake campus redevelopment plans spread over the next 5 years. The redevelopment would require relocation or augmentation of several existing facilities. Thus a phase wise plan for the next five-year period has been developed. This effort has brought in a structured vision of the future construction work on campus. TIET plans to spend over INR 700 crores in this campus development project. TIET will be developing academic block and student residences to accommodate over 15000 students in next 5 years. The idea is to provide over 300 Square Feet of usable area per student for a total strength of 15000 students at the end of 5 years. We plan to have around 75% of students in a residential model, and have facilities for most of the faculty on campus. All classrooms and academic areas are planned to be converted into air conditioned spaces. All hostels would also be made centrally air conditioned by year 2025. TIET also plans to build 6 centres of excellence cutting edge laboratory infrastructure in the shortlisted niche areas.

#### o Academic Infrastructure

As the student numbers grow, there will be a need for additional academic infrastructure including both Physical as well as Lab equipment. Assuming that the strength increases as has been projected in Section 1 of this report, the calculations for Physical Infrastructure has been made using the following assumptions:

- Each Lab group size is 30
- Total intake at UG is 2425 (existing) going up to 3265 in 2025
- Intake at UG level in the Computer Science department is 1140 (existing) will reach to 1860 (includes Derabassi 2+2) and Electronics & Communication will go up from 390 to 540.
- Total PG intake in Computer Science department is 78 + 60 (MCA)
- Total full time PhD students in Computer Science department is 250 (peak)
- Total faculty strength in Computer Science department will be 250
- Total support and technical staff in the Computer Science department will be 30.

The area calculations per unit have been done as under:

- Individual faculty offices : 10 sq mtr
- Shared faculty offices : 15 sq mtr
- Lab space for up to 30 students : 80 sq mtr
- Activity area space (for projects) : 250 sq mtr
- Seminar / Meeting Rooms : 250 sq mtr
- Staff offices : 5 sq mtr
- Lecture rooms : 150 sq mtr

Table 6a and 6b provides the area required in sq.mtr. for various facilities in the proposed block for CSE and ECE for the intended strength by 2025.

**Table 6a: Laboratory space required for additional strength**

| Entity                        | New CSED Labs required | New ECED Labs required | New Labs required (Common facilities) | New Labs/offices required | Lab area to be built in m <sup>2</sup> |
|-------------------------------|------------------------|------------------------|---------------------------------------|---------------------------|----------------------------------------|
| Labs required                 | 41                     | 10                     | 6                                     | 57                        | 4560                                   |
| Activity Space                | 1                      | 1                      | 0                                     | 2                         | 1000                                   |
| Seminar Room                  | 1                      | 1                      | 0                                     | 2                         |                                        |
|                               |                        |                        |                                       |                           | 5560                                   |
| Total Area (circulation @30%) |                        |                        |                                       |                           | 7228                                   |

**Table 6b: Faculty seating space required for additional strength**

| Entity                 | New Faculty offices CSED | New Faculty offices ECED | New Faculty offices other depts | Total offices required | Office Spaces to be built in m <sup>2</sup> |
|------------------------|--------------------------|--------------------------|---------------------------------|------------------------|---------------------------------------------|
| Faculty offices Single | 70                       | 25                       | 60                              | 155                    | 1240                                        |
| Faculty offices shared | 35                       | 25                       | 30                              | 90                     | 1080                                        |
| Admin staff shared     | 5                        | 2                        | 2                               | 9                      | 90                                          |

|                                  |  |  |  |  |  |      |
|----------------------------------|--|--|--|--|--|------|
| Total Area<br>(circulation @30%) |  |  |  |  |  | 2410 |
|----------------------------------|--|--|--|--|--|------|

The area required for additional strength @ intake every year is 9600 m<sup>2</sup>.

### Lecture Halls

The lecture and Tutorial rooms have been estimated using the following rationale

- UG first year class group size will be 220 or more
- UG 2nd year class group size will be between 120-150
- UG 3rd and 4th class group size will be between 80-100
- ME/MSc class group size will be 30
- Tutorial groups are 25 to 30
- Lecture Load per week for each class is 16 hrs and Tutorial load is assumed at 6 hrs

Based on these assumptions, Table 7a and 7b show the number of rooms required for Lectures and Tutorials and their capacities.

**Table 7a: Lecture Rooms required**

| Year                          | No of Student | No of Hours Per Week | Total number of Hours | Group size | No of hrs per group | Rooms required |
|-------------------------------|---------------|----------------------|-----------------------|------------|---------------------|----------------|
| Year 1                        | 3265          | 16                   | 52240                 | 220        | 237                 | 7              |
| Year 2                        | 3025          | 16                   | 48400                 | 120        | 403                 | 12             |
| Year 3                        | 2785          | 16                   | 44560                 | 80         | 557                 | 16             |
| Year 4                        | 2545          | 14                   | 35630                 | 80         | 445                 | 13             |
| PG Programs                   |               |                      |                       |            |                     |                |
| Year 1                        | 698           | 12                   | 8376                  | 25         | 335                 | 10             |
| Year 2                        | 200           | 12                   | 2400                  | 25         | 96                  | 3              |
| Number of Classrooms required |               |                      |                       |            |                     | 59             |

### Derabassi – Lecture Rooms

| Year | No of Student | No of Hours Per Week | Total number of Hours | Group size | No of hrs per group |
|------|---------------|----------------------|-----------------------|------------|---------------------|
|------|---------------|----------------------|-----------------------|------------|---------------------|

|                               |     |    |      |     |      | Rooms required |
|-------------------------------|-----|----|------|-----|------|----------------|
| Year 1                        | 240 | 16 | 3840 | 120 | 32.0 | 0.9            |
| Year 2                        | 240 | 16 | 3840 | 120 | 32.0 | 0.9            |
| Number of Classrooms required |     |    |      |     |      | 2              |

**Table 7b: Tutorial Rooms required**

| Year                                        | No of Student | No of Hours Per Week | Total number of Hours | Rooms Required |
|---------------------------------------------|---------------|----------------------|-----------------------|----------------|
| Year 1                                      | 3265          | 6                    | 19590                 |                |
| Year 2                                      | 3025          | 6                    | 18150                 |                |
| Year 3                                      | 2785          | 6                    | 16710                 |                |
| Year 4                                      | 2545          | 5                    | 12725                 |                |
| Master Program                              |               |                      |                       |                |
| Year 1                                      | 698           | 3                    | 2094                  |                |
| Year 2                                      | 200           | 3                    | 600                   |                |
| Number of Tutorial rooms @ 40/room capacity |               |                      |                       | 80             |

**Derabassi Tutorial Rooms**

| Year                                        | No of Student | No of Hours Per Week | Total number of Hours | Rooms Required |
|---------------------------------------------|---------------|----------------------|-----------------------|----------------|
| Year 1                                      | 240           | 6                    | 1440                  |                |
| Year 2                                      | 240           | 6                    | 1440                  |                |
| Number of Tutorial rooms @ 40/room capacity |               |                      |                       | 4              |

The present capacity at TIET is 93 the following

- B-Block
- D-Block
- E-Block
- F-Block
- TAN
- Learning Laboratory lecture rooms

In order to meet the required load in 2025, there is a shortfall of 49 rooms of varying capacities as per details in Table 8.

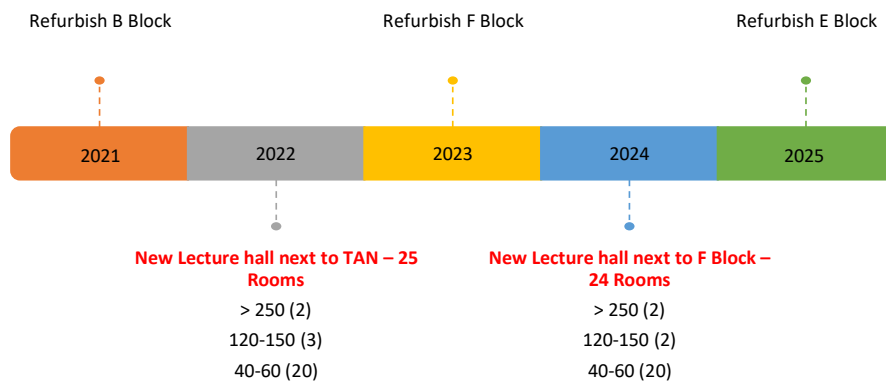
**Table 8a: New Lecture and Tutorial Rooms required**

| Capacity | Required | Available | Difference |
|----------|----------|-----------|------------|
| > 250    | 8        | 4         | -4         |
| 80-150   | 41       | 61        | +20        |
| < 80     | 93       | 28        | -65        |

**Table 8b: New Classrooms proposed to be constructed**

| Capacity        | Number of Rooms |
|-----------------|-----------------|
| > 250           | 4               |
| 120-150         | 5               |
| 40-60           | 40              |
| 150 (Derabassi) | 2               |

It is proposed to construct two new Lecture Hall complexes (one next to TAN building and other next to F-Block) over the next five years as per details below. Also, it is important to refurbish the old lecture hall complexes (air conditioning, acoustics, AV and curtains) to make the suitable for use. **Alternatively, an additional floor on top of existing E and F Blocks will be considered for adding to the capacity of class rooms.**



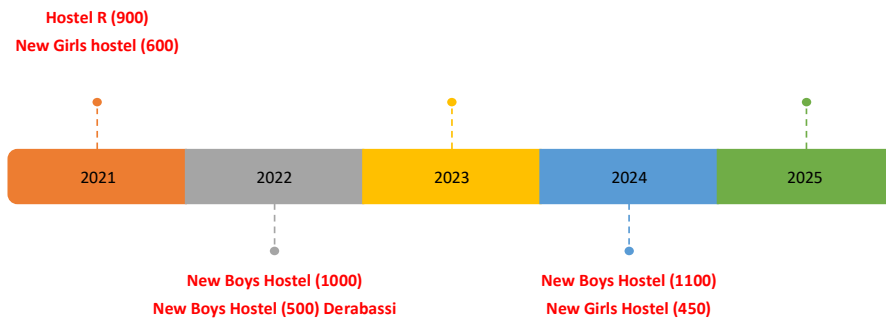
## 5. Student Residences and Amenities

TIET remains largely a residential campus for its students and faculty. Typically, 75% of the total student strength lives on campus in its vast and top class hostel facilities. In the existing hostels, there are several rooms (In B, C, H and some girls hostels) where either 3 or 4 students share the room. At least in the short run, such rooms at the best can be used only on twin sharing basis and this has further constrained our already over stressed hostel facilities. Thus we will need to build hostels across both campuses to house the increased number of students. Also, at this time, two faculty residential towers are used as student residences and there is a severe pressure from faculty for more housing on campus. We will need to construct many hostels to make up for this demand.

The following assumptions have been made:

- 75% of the students will opt for hostel
- From those who opt for hostels, 75% will be boys and 25% girls
- There will be approximately 300 less admissions in PG programs
- The Derabassi program remains a 2+2

We will need 5 new hostels (3 boys and 2 girls) over the next five years of varying capacities as shown in figure below. **Additionally, a new 150 beds will be added to the exiting hostel capacity at Derabassi in 2022.**



We are aware of the new indoor sports centre that was inaugurated two years ago. Until the new sports centre comes up we will need some sports facilities as under:

- One indoor badminton hall comprising of more badminton courts.
- One common gym hall with a minimum sixteen stations (Exercise station)
- Re-carpeting of existing synthetic tennis courts and athletic Track as these facilities have aged significantly.
- Seating facility at existing synthetic track and cricket ground (Stadium type)

## 6. Placements and Internships

To effectively cater to the growing number of candidates TIET needs to increase its industry outreach and maintain existing employee relations.

**Table 11: Graduates and number of companies required to place ~3000 students (UG)**

| Graduating Year         |        | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 |
|-------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|
| Graduands               |        | 1539 | 1652 | 1764 | 1801 | 2528 | 2395 | 2515 | 2635 | 2875 | 3115 | 3355 |
| Eligible & Opt to Place | Actual | 1385 | 1487 | 1588 | 1621 | 2275 | 2156 | 2264 | 2372 | 2588 | 2804 | 3020 |
| Factor                  | 90%    |      |      |      |      |      |      |      |      |      |      |      |
| Placed                  | Actual | 1113 | 998  | 721  |      |      |      |      |      |      |      |      |
| Factor                  |        | 80%  | 67%  | 45%  |      |      |      |      |      |      |      |      |
| Offers                  | Actual | 1187 | 1111 | 747  |      |      |      |      |      |      |      |      |
| Factor                  |        | 86%  | 75%  | 47%  |      |      |      |      |      |      |      |      |
| Companies               | Actual | 331  | 325  | 130  |      |      |      |      |      |      |      |      |
| Required                |        | 331  | 355  | 379  | 405  | 539  | 539  | 546  | 566  | 593  | 647  | 701  |

Table 11 gives the number of graduating students until 2029. As can be seen from the data, about 90% of the graduate students register with the placement cell. CILP is successful in placing about 90% of such students every year although 2020 and 2021 have been severely impacted by the pandemic. If the above numbers hold good, we will need to place close to 3000 students in 2029. Typically each company hires about 4.5 students on an average. Using this average value we can project that approximately 653 companies would be required to visit the institute to place ~3000 undergraduate students.

The visiting companies have been subdivided into the top recruiting sectors and as expected IT and consulting form the bulk of our hirers, refer Table 12 for details. As all the increase in student numbers is going to take place in these disciplines, we will need to invite more and more companies from these sectors. Table 12 also gives the expected number from each of these recruiting sectors for 2022, 2025 and 2029.

**Table 12: Proposed number of companies sector wise**

| S # | Sector | Actual companies visited | Proposed number of organizations |
|-----|--------|--------------------------|----------------------------------|
|-----|--------|--------------------------|----------------------------------|

|    |                        | 2018       | 2019       | 2020       | 2022       | 2025       | 2029       |
|----|------------------------|------------|------------|------------|------------|------------|------------|
| 1  | IT                     | 126        | 122        | 107        | 149        | 214        | 289        |
| 2  | Consulting             | 29         | 28         | 30         | 34         | 49         | 66         |
| 3  | Manufacturing          | 23         | 25         | 14         | 27         | 39         | 53         |
| 4  | Automobiles            | 19         | 23         | 26         | 22         | 32         | 44         |
| 5  | Electronics & Telecom  | 17         | 22         | 27         | 20         | 29         | 39         |
| 6  | BFSI                   | 13         | 19         | 20         | 15         | 22         | 30         |
| 7  | Education and Training | 23         | 17         | 7          | 27         | 39         | 53         |
| 8  | Engineering Consulting | 14         | 16         | 26         | 17         | 24         | 32         |
| 9  | Energy & Power         | 7          | 13         | 7          | 8          | 12         | 16         |
| 10 | e-Commerce             | 14         | 12         | 26         | 17         | 24         | 32         |
| 11 | Infrastructure         | 13         | 10         | 18         | 15         | 22         | 30         |
| 12 | Healthcare & Pharma    | 16         | 10         | 11         | 19         | 27         | 37         |
| 13 | Chemical               | 5          | 10         | 5          | 6          | 9          | 11         |
|    |                        | <b>321</b> | <b>331</b> | <b>326</b> | <b>379</b> | <b>546</b> | <b>735</b> |

Further analysis of the data shows (refer Table 13) that we have 157 companies visiting from NCR and about 48 companies from Bangalore region. This is expected to rise to 259 in NCR and 100 in Bangalore. At present we have only an operations team at campus for placements. We will need to create an outreach and a business development team that caters pan India. To begin with, it is proposed that we hire a Manager level experienced person for Business Development at Bangalore. Similarly, we will need a dedicated person for outreach at NCR immediately. As an immediate action, it is proposed to hire two new persons for business development for Bangalore and NCR. We will review the output and may hire a person based in Pune/Mumbai in 2022.

**Table 13: Proposed number of companies region wise**

| S # | Region      | Actual companies visited | Proposed No. of companies |      | Business Development Manager |
|-----|-------------|--------------------------|---------------------------|------|------------------------------|
|     |             | 2018                     | 2025                      | 2029 |                              |
| 1   | Delhi/NCR   | 157                      | 259                       | 349  | 01 (Based in Delhi)          |
| 2   | Punjab      | 53                       | 60                        | 69   | -                            |
| 3   | Bengaluru   | 48                       | 100                       | 139  | 01 (Based in Bangalore)      |
| 4   | Mumbai/Pune | 36                       | 59                        | 80   | 01 (Based in Pune)           |
| 5   | Others      | 24                       | 40                        | 53   |                              |
| 6   | Hyderabad   | 7                        | 12                        | 16   |                              |
| 7   | Chennai     | 6                        | 10                        | 13   |                              |



|   |       |     |     |     |  |
|---|-------|-----|-----|-----|--|
| 8 | Total | 331 | 546 | 735 |  |
|---|-------|-----|-----|-----|--|

It is proposed to split the potential employers into three categories:

- **Anchor companies:** The business development executives will be used to improve coordination, communication and outreach to strengthen the relations. The placement cell will regularly interact with the anchor companies and involve them in campus events. **Placement cell needs to work on a methodology to place TIET in Tier 1 category.**
- **Repeat companies:** The placement cell representatives will strengthen relations with repeat Employers by proposing mutually beneficial avenues and seeking feedback. The business development executives will improve communication patterns and coordinate activities for companies falling in tier 1 and tier 2.
- **New companies:** The business development executives will be source contacts of potential employers. They will connect with company executives in person and highlight what TIET has to offer. They will cater to any customisation or special request to better the rate of conversion. Alumni association and faculty will be useful in identifying the new recruiters.

#### **Proposed placement process**

- Channelizing connects from the institute to bolster the industries database
- Industry and placement cell to reach out to companies HR. Faculty to meet with service line heads or CEOs of companies
- High priority companies to be divided amongst business development executives
- Executives or faculty to make pre-placement visits to high-priority companies to strengthen connect
- We will invest into a placement management system to standardise the resumes, company calendar, student profiles and to communicate with the companies
- Simultaneously, the job readiness program by the Centre for training and development will continue to be strengthened. Mock interviews and tests, business etiquette and dress sense, technical aptitude and general awareness will be prioritised. Additionally, eminent personalities and alumni will be invited to conduct workshops, life projects and role-plays.
- When the actual company visit takes place to the campus the industry and placement cell will inform the relevant HODs of the companies that are visiting.
- HOD will have 15 minutes with each company for feedback and queries. The feedback will be documented and filed. The placement cell will get feedback from selected or unselected students and also about company queries and line of questioning for future use.
- The placement cell will analyse the feedback and use it for post-placement sessions to develop informational cheat sheets for preparing the students next year.
- The placement management system will have an updated Student and company database, and a web portal.

- A similar methodology will be used for internships as well.

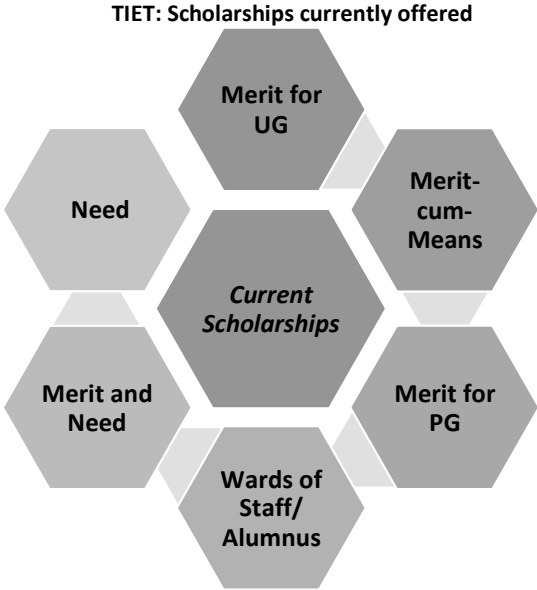
### 7. Scholarships

As a socially responsible organisation, TIET feels education has the biggest potential of making a social impact both in the short term (allowing young people to become employable and support a family) and in the long term (social inclusion and economic productivity of the country). TIET, since its inception, has been ensuring access to funds for student scholarships at its campuses in Patiala and Derabassi every year.

TIET being one of the most reputed higher education institutes in the country, it is our responsibility that the dearth of funds must not become a bottleneck for any student to lose the opportunity to benefit from the Thapar experience. TIET has plans to deliver upon its commitment to offer education to all who have secured admission through its robust screening process either through scholarships, grants or strong linkages to student financing.

**Why are scholarships important?**

Scholarships help keep education affordable and accessible, making sure that every student can earn their degree with as little debt as possible. Additionally, it is an important component on which ranking and accreditations are assessed. Full Tuition fee scholarships are a must to get better ranking in NIRF and NAAC score. We need to urgently relook at the scholarships scheme to align with these agencies.



- these scholarships are given on the criteria that the student scores above a certain percentage in their JEE (Main) scores (above 85% depending on the scholarship); the criteria for continuation of the scholarship is that the student continues to perform according to the standards prescribed.
- Cum-Means- income is below 8 lakh p.a.; the preference is given to Single Girl Child students.
- Three merit scholarships, one of each full, half and quarter tuition fee value, will be awarded to the students in the MCA and MSc program on the basis of merit.
- Apart from these scholarships, TIET provides more scholarships to mostly students on the basis of merit and need. Although, these scholarships average to around INR 10,000, they add
- 

**Initiatives TIET will undertake to provide scholarships to students during the next 5 years**

During the first 5 years, TIET would focus on merit based scholarships and targeted scholarships to attract people from under represented areas within India and abroad. TIET will earmark 10% of its annual revenue towards scholarships. The operational details of the scholarship policy will be detailed later before its roll out during Admissions 2021.

It is further proposed that a certain minimum percentage of students will be awarded scholarships as given in Table 14.

**Table 14: Award of Scholarships and fee ships**

|                          | Year  |       |       |       |       |
|--------------------------|-------|-------|-------|-------|-------|
|                          | 2021  | 2022  | 2023  | 2024  | 2025  |
| <b>% of Scholarships</b> | 15.0% | 15.0% | 17.0% | 18.0% | 20.0% |

**8. ERP**

As we grow from 10000+ to 15000 by 2025, implementation of a comprehensive ERP solution to manage the student life cycle without a comprehensive ERP system. The current system works in bits and pieces and is heavily dependent upon skilled technical hands to manage it. As an immediate need, we need to procure an ERP system which include all activities for a student from a fresh applicant to be an alumni:

- Managing courses and programs



- Recruitment of students
- Admit and orientation of students
- Manage regular students
- Deliver courses
- Assess students
- Manage student progression
- Student financial
- Provide support services and student amenities such as hostel management, sports and societies
- Confer awards
- Manage Alumni
- Manage student records

This is top priority and its success will depend upon what we do right and what we don't. We should tender for a turn-key solution from functionality, process change and data migration point of view. However, typically what the vendor will promise and what will be delivered is very different and might have huge gaps. The planning phase must be completed properly and TIET should spend lot of time in planning implementation before going for it. Migration of the previous data is likely to be the most difficult part.

## 9. Research Plan

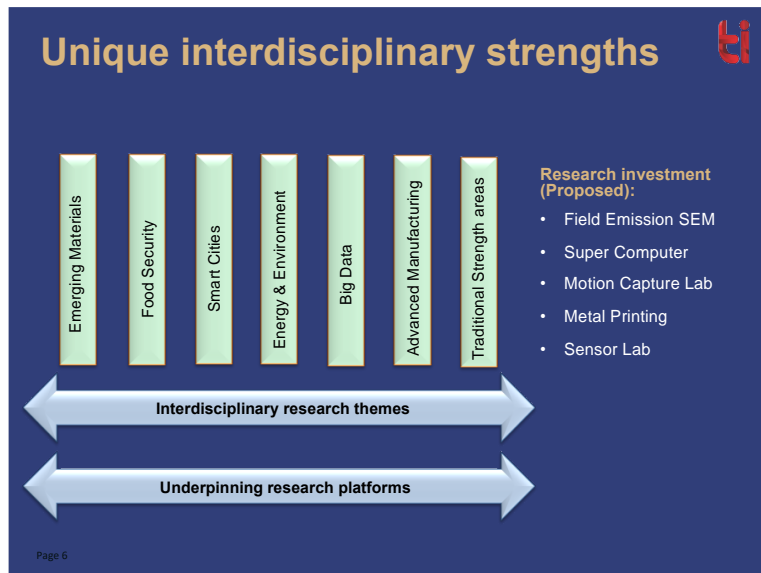
Research at TIET is at the apex of the institute's long-term strategic plan, which is to be a leading research focused and teaching intensive institute in India. Research is a central theme of the institution's mission. Research and innovation will facilitate academic collaborations, industrial interactions 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 on its budget on research activities. This creates numerous opportunities for graduate and undergraduate students and provides faculty 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).

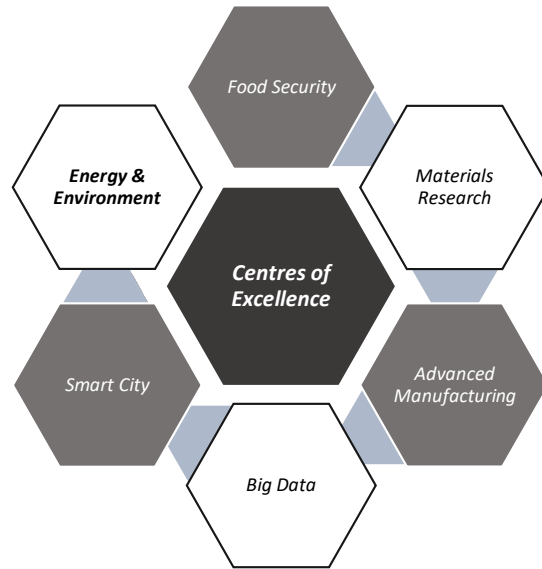
TIET earmarks a significant amount from its budget for acquiring research equipment. Every year the institution asks departments to present their capital equipment requirements and sanctions funds for acquisition of research and teaching equipment. All the engineering and science departments have established advanced research facilities during the last 5 years.

The institute attracts significant number of applications for its research programs. There is stringent requirements for evaluation of PhD thesis wherein the student is required to publish at least 2 SCI papers (now 3) before submission. The institution has as on date over 120 sponsored research projects ongoing. The institute has also established centres of excellence in emerging disciplines and some funding has been raised for these centres/labs. The senior faculty of the institute guides the younger colleagues about the research projects and funding available under various schemes.

**Going Forward**

TIET has experienced remarkable growth in research activity during the last 5 years, and growth is often the by-product of doing things better. Some initiatives cited above and many, many more help explain TIET’s journey till date. **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 at 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 during the last 18 months. 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 appointment of Prof Noam Eliaz from Tel Aviv University to lead the Advanced Manufacturing Centre. All the 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 Chair Professors came for a listening tour to Patiala and spent time visiting labs and meeting with Thapar academics. They made a presentation to discuss their vision for the centre and the interdisciplinary research areas. The visit was followed by inviting applications for project proposals from prospective academics at Thapar in collaboration with academics from VT or TAU and also an industrial partner wherever possible. The Letters of Intent received by each centre were then screened by the Chair and a local coordinator at Thapar. The shortlisted ones were asked to submit a detailed proposal. Each of these projects sanctioned under each Centre are being seed funded by Thapar with an expectation that the PIs will leverage this funding to secure a much larger grant from an outside funding agency. The proposals are reviewed periodically by an advisory committee chaired by Mr Rajeev Vederah, Prof Gopalan, Chair Professor, and others. The activities of the three centres are detailed in later sections of this report.

As the 6 CoEs get established, it is expected that close to 200 academic members of TIET staff, 100 Postdoc or PhD students would be working in these centres during the next five years.

Besides supporting the six centres of excellence, TIET, during the next five years, will continue to support and invest in people and research platforms across various scholarly activities in different disciplines. They will be catalysts in the development or application of new knowledge. TIET will build research capacity, invest in priority areas and support and create new research platforms.

The initial seed fund grant that is offered to new faculty hires will also be gradually increased from its present value

| Grants for Faculty                                                                | Years    |          |          |          |           |
|-----------------------------------------------------------------------------------|----------|----------|----------|----------|-----------|
|                                                                                   | 2021     | 2022     | 2023     | 2024     | 2025      |
| <b>Initial Seed Fund for Research in INR (max)</b>                                | 8,00,000 | 8,00,000 | 8,00,000 | 9,00,000 | 10,00,000 |
| <b>% of New Faculty getting Seed Fund (during first 3 years of their joining)</b> | 90%      | 100%     | 100%     | 100%     | 100%      |

Similarly the institute will also increase the number of post-doctoral fellows travelling to international partner universities to imbed internationalisation efforts.

| Post-Doctoral Initiatives                         | Years     |           |           |           |           |
|---------------------------------------------------|-----------|-----------|-----------|-----------|-----------|
|                                                   | 2021      | 2022      | 2023      | 2024      | 2025      |
| <b>Number of Post-Doctors</b>                     | 10        | 10        | 10        | 15        | 15        |
| <b>Fellowship Per Person (INR) or Euro 20,000</b> | 18,00,000 | 18,00,000 | 18,00,000 | 18,00,000 | 18,00,000 |

TIET will create and fund additional research chairs at leading universities/ industry to enhance knowledge and gain international exposure in identified areas.

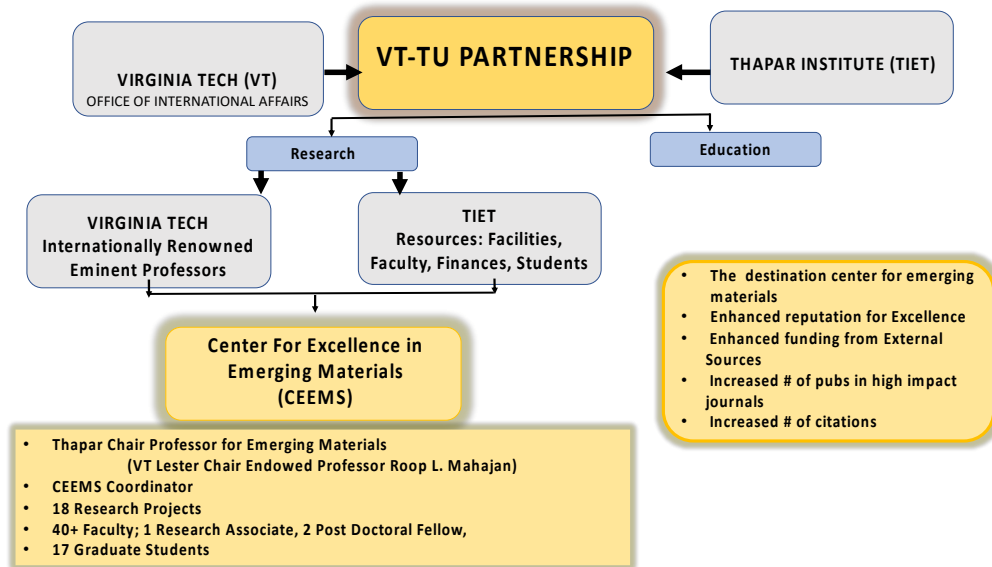
| Excellence in Faculty             | Years |      |      |      |      |
|-----------------------------------|-------|------|------|------|------|
|                                   | 2021  | 2022 | 2023 | 2024 | 2025 |
| <b>Number of Chair Professors</b> | 3     | 4    | 4    | 6    | 6    |

Some of other initiatives that will be taken to build research capability include:

- The institute will promote interdisciplinary research among faculty members by creating research groups and offering enhanced incentives for the same. TIET will also recruit eminent faculty members in the existing strong areas as well as the new schools at the institute, focussed on undertaking research and providing suitable guidance. TIET will encourage its faculty to regularly collaborate and research areas concerning the society. The institute will support faculty in publishing their material in peer-reviewed journals.
- The institute will adopt the mentor model for developing individual research capabilities and improving research quality across levels.

- TIET will attract adjunct faculty from global institutes and the industry for conducting research in complementary areas. The institute will incentivise faculty to expand individual networks and undertake joint projects with collaborators from other geographies and countries as well.
- Over the next five years, the institute will build cutting-edge research infrastructure, invest in required equipment and provided the needed facilities to conduct the research targeted for this period.
- The institute will also procure high-end application instruments to strengthen the present research facilities in phased manner. The institute will invest in cutting-edge research facilities as well.
- TIET will conduct an internal annual competition for research funding across identified areas – allowing participants to develop focused research plans and success indicators to seek a suitable quantum of funding
- TIET will also create an IPR centre to facilitate and provide suitable guidance for patent filing and patent commercialization

○ **TIET-VT Centre of Excellence – Emerging Material**



Context

Intense research in recent years has culminated in rapid progress in science and technology that affects every sphere of human life. Development of multifunctional materials and miniaturization of devices have been the keys to this remarkable stride. While our understanding of the fundamentals



of materials continue to improve, the techniques and instruments to study and design them become more complex and challenging. It is only through the 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 to establish operational mechanisms and reliability of the systems are equally critical and thus, 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 level which is acclaimed internationally.

CEEMS’ Thrust Area and their leadership teams:

**Thrust Area 1.**

Title: Coal-derived graphene-x (graphene oxide, reduced graphene oxide, graphene quantum dots and other derivatives).

Thrust Area leaders: Dr. Soumen Basu (SCBC) and Dr. Rana Pratap Yadav (ECED)

**Thrust Area 2.**

Title: 2. Graphene-x-polymer nanocomposites, with a focus on environmentally friendly applications.

Thrust Area leaders: Dr. Rajeev Mehta (CHED) and Dr. Shruti Sharma (CED)

**Thrust Area 3.**

Title: 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.

Thrust Area leaders: Dr. Bhupendrakumar Chudasama (SPMS) and Dr. Diptiman Choudhury (SCBC)

**Thrust Area 4.**

Title: Exploratory research to capture high-risk, high-reward basic and applied research crosscutting the first three thrust areas.

Thrust Area leaders: Dr. Bonamali Pal (SCBC) and Dr. Anoop Kumar (SEE).

**Thrust Area 5.**

Title: Computational and Simulation (a core capability in recognition of the important role played by scientific computation as the third leg of learning and research).

Thrust Area leaders: Dr. Rajesh Khanna (ECED) and Dr. Neeraj Kumar (MED)

There are three following major components of the Centre:

- To raise central funds to establish major state of the art characterization facilities.
- Raising funds for COE through individual centric sponsored research projects from various funding agencies.

- University has a policy to promote research by providing matching grants to various projects. TIET will be acquiring state of the art equipment eg. FESEM during the next six months. In recent past AFM, Particle and Zeta potential analyzer, LB film deposition system, etc. have been acquired through in-house funding.

### ○ **TIET-TAU Centre of Excellence - Food Security**

#### Context

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 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 standard 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 setup a new interdisciplinary centre. This centre has brought together researchers from diverse academic disciplines to promote innovative research, to forge ties with professionals and academics around the world, and to 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 from 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 will provide 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 development of biosensor platforms and development of affordable processing technologies for mitigation of post-harvest losses. The following projects are undergoing at the center: 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 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 Chair holder will provide leadership in the development of a vibrant research infrastructure at both TIET and TAU.** The Chair is a regular full Professor at TAU and will also report to the Director of TIET with respect to TIET's research strategy, research infrastructure, staffing policies relating to research, mentoring of academic and post-doctoral staff and training of PhD students. As the centre gets established by mid 2021, it will establish a high profile, internationally leading inter-institutional research group under the over-arching themes of "**Advanced Manufacturing**" which builds on the expertise at TAU and TIET in the related areas. The centre will leverage both (i) the existing research on the theme of "Advanced Manufacturing" carried out at TAU, and (ii) the expansion of academic staff and research labs in TIET and strengthen TIET's links with Indian industry (e.g. Tata, Bharat Forge etc) to increase application driven funded research and also with research labs (e.g. DRDO, ISRO, HAL). The chair holder will explore new links, particularly those with potential for international initiatives leading to substantial international and Indian funding in collaboration with TAU and other international partners.

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

TIET will work with Noam to develop the funding model for the Centre for the next 5 years based on the discussions that were held in Patiala on Jan 27-28, 2020.

Once TIET resumes its full operations after the disruption caused by the pandemic, it is proposed that a TIET team will visit Prof Noam Eliaz at TAU to develop a comprehensive proposal. Meanwhile, TIET will appoint a local coordinator from its faculty, who will assist Noam in running the activities of the centre. Subsequently, we will set up visits to some Indian companies (Bharat Forge, Wipro, Tata etc) with Noam with a view to include them as a partner(s) in the establishment of the centre.

The proposal overview was also shared with Dr Sivathanu Pillai who suggested that we visit Wipro in Bangalore which has set up a facility for additive manufacturing to understand our requirements for the centre.

**Some projects proposed to be undertaken**

A brief overview of the projects that we propose to undertake in the first two years (not a consolidated list) is attached in the .ppt file with this report.

Following are some of the areas in which the faculty of Mechanical Engineering Department is interested to work in the Centre of Advanced Manufacturing:

| S.No. | Research Area                                                                                                                                                                                                                                                                                                          | Facilities required                                                                                                        |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 1.    | Design and Development of customized dental implants: Using MRI/CT and MIMICS, customized dental implants will be developed using a metallic printer. Fabrication of knee implants with optimized properties which will improve its functioning and longevity                                                          | Metallic 3D Printer, Mimics software, Magics software                                                                      |
| 2.    | Ultrasonic bone drilling and grinding to minimize thermal necrosis, Synthesis, characterization, and bioactivity investigation of biomimetic biodegradable PLA scaffold, biomechanics of gait. Another aspect is to find accurate and precise vision-guided robotic system to perform complex neurosurgical procedures | Metal 3D Printer with Magic software, Image guided robotic drilling/grinding arm, Thermographic camera, 6 axis dynamometer |
| 3.    | Customized Orthosis development using Reverse Engineering: The different orthosis will be developed using reverse engineering as a tool                                                                                                                                                                                | 3D Printer (Polymer), Magics software, Reverse Engineering Camera, Rhino Software                                          |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                         |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4. | Use of 3D printing (Metal and Polymer/Resin) to manufacture Auxetic meta-materials (having periodic cellular structures) which exhibit properties like improved fracture toughness, impact resistance, vibration attenuation, acoustic energy absorption and resistance to shear and indentation. These materials would have practical applications in the automotive, defence, medical, sports and textile sectors in making products and devices with these desirable properties. Examples include artificial blood vessels and dilator, smart bandages, composites reinforced with Auxetic fibres, mechanical components like press-fit fasteners, gaskets and air filters, body armours and crash helmets. | Metal 3D Printers with Magics Software                                                                                                                                                                                                                                  |
| 5. | Precision laser-power joining techniques for Medical applications, Biomedical materials (implants), Medical devices and surgical instruments, Battery Pack joining – dissimilar materials (micro-welding), Sustainable Manufacturing – Hot wire Laser welding, Industrial demand – Cold wire and autogenous laser welding in aerospace and automotive sector & near net shape additive manufacturing, Petrochemical and Nuclear energy industries– thick section similar and dissimilar metal welding using laser power source.                                                                                                                                                                                | Robot assisted Laser Welding Power Source                                                                                                                                                                                                                               |
| 6. | To provide customized solution for any industry via Cobots (Collaborative Robots). For any futuristic industry, Cobots are must, which are based on IOT, Cloud computing and AI based technologies. Automation and IoT for Smart Manufacturing, also, to develop Robotic Assisted Advance Finishing Processes                                                                                                                                                                                                                                                                                                                                                                                                  | Kuka setup for Industry 4.0, Cyber-Physical Systems, Collaborative Robots, Industry 4.0 Compliant Sensors, Actuators & Controllers, Advance Simulation and Digital Twin, Analytics, Remote Maintenance, Wireless Instrumentation, Industrial Safety and Cyber Security. |
| 7. | Synthesis, characterization, and testing of high impact strength epoxy based GFRP nanocomposites for motor-boat hulls, racing car bodies, and sporting goods like vault poles etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Plastic Impact Testing Machine for evaluation of impact strength of polymer composites /GFRPs                                                                                                                                                                           |
| 8. | Microwave sintering of metallic load bearing implants and their tribological performance in simulated environment, functionally gradient materials                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Microwave Furnace, bio-tribological tester, High Temperature erosion Tester                                                                                                                                                                                             |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | manufacturing of variable physical/mechanical characteristic for thermal, hydro power plants.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                |
| 9.  | Cold Metal Transfer (CMT) Welding Technique for application in (1) Joining of thin materials in automobile industry/aerospace industries, (2) Battery pack joining, (3) Repair and maintenance of high fatigue life components like axle, shaft, rollers, (4) Mitigation of residual stresses of conventional welding processes (5) Additive manufacturing                                                                                                                                                                                                                                                                                                 | Cold Metal Transfer (CMT) Welding setup                                                                                                                                                                                                                                                                                                                                                                        |
| 10. | Welding and Coating of additive manufacturing parts, Development of materials and coating by additive manufacturing for aerospace and defense application for resistance to high temperature and aggressive environments                                                                                                                                                                                                                                                                                                                                                                                                                                   | Metal 3D Printing and WAAM                                                                                                                                                                                                                                                                                                                                                                                     |
| 11. | Micro manufacturing is in huge demand for the production of features by a non-traditional method. Micro-EDM process is based on the thermoelectric energy between the workpiece and an electrode. Micro-EDM is a newly developed method to produce micro-parts which in the range of 50 µm -100 µm. Micro-EDM is an efficient machining process for the fabrication of a micro-metal hole with various advantages resulting from its characteristics of non-contact and thermal process. Produced micro parts by micro-EDM are widely used in micro electro-mechanical systems (MEMS), biomedical applications, automotive industry, and defence industry. | Hyper-15 micro EDM                                                                                                                                                                                                                                                                                                                                                                                             |
| 12. | Development of new methods/processes for Nano finishing of components, bio-medical implants, dies, impeller blades, blisks, precision 3D form metal dies for fabrication of high strength composites, nano-finished precision lenses and other precision manufacturing operations need multi-axis machining toolpath data and simulation setup. In addition the precision machining setup are required for testing the high speed, high feed machining of high strength materials for various application like aerospace and medical implants. The group is also involved in the multi-axis numerical control machining of complex surfaces using          | Tilt-rotary table based 5-axis simultaneous CNC machining center (Universal Milling Machine DMU 50 - DMG MORI Design), Mobile workstation (Dell Precision-7730) for computational simulations for 5-axis CNC toolpath analysis, Rotating 4-component dynamometer for measuring the forces and torque on a rotating tool during cutting processes, high rpm precision spindle based 3-axis CNC vertical milling |

|  |                                                                                                                                                                                                                                                                                                                                                                                  |                                                       |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
|  | <p>five-axis machining center. The research group at TIET is working in close collaboration with University of Waterloo, Canada to develop and validate advanced multi-tangency multipoint five-axis Numerical control tool positioning algorithms for precision and efficient machining of complex surfaces as found in bio-medical, automobile and aerospace applications.</p> | <p>setup for non-contact nano-precision polishing</p> |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|

○ **Centre of Excellence – Data Sciences**

The fast emerging field of data science has found its applications in all areas of engineering and science applications. Data science helps in drawing deep insights from raw and unstructured data. The field involves data acquisition, data maintenance, information extraction, data processing and application development. Many world class universities have dedicated Data Science research centers. To be contemporary and realize our vision to be amongst the top world class universities Thapar Institute of Engineering & Technology (TIET) has proposed to set up a Centre of Excellence in Data Sciences (and Data Analytics). The Center of Excellence in Data Science (CoEDS) at TIET will support cutting edge research in the areas of Big data, AI, Machine Learning, Deep Learning and their applications in the areas, such as Natural Language Processing, Biomedical Applications, Gait Analysis, Computer Vision, Food and agriculture, Defence, Economics, and other contemporary applications. This Centre will be in line with the long term goals of the institution to improve the quality of research at TIET and bring it to a level which is acclaimed internationally. The research area at TIET is truly interdisciplinary and several faculty members across various programs are working in the field. The centre will enroll up to 20 researchers, to begin with, including faculty, post-doctoral fellows and PhD students. Both TIET and our international collaborators accept that this subject remains a long term goal which would require a considerable amount of planning and thought process besides significant funding. The research at TIET will focus on the following major contemporary themes:

***Big Data***

Big Data has become a big game-changer in most, if not all, types of modern industries over the last few years. As Big Data continues to permeate our day-to-day lives, there has been a significant shift of focus from the hype surrounding it to finding real value in its use. CoEDS will have capability to generate resources for creation, processing, maintenance, analysis, etc for getting greater insight into the data. These resources will also be made available for the other researchers to use worldwide, it will give TIET an opportunity to show our strength across the globe.

***Natural Language Processing***

Across the world leading research laboratories, including Goole, Facebook, Microsoft, MIT , Stanford etc, are working on the fundamental research in the area of NLP; such as, chatbots, multilingual

translation of text and speech, emotion analysis, audio signal based analysis, etc. The research has direct implications on product and software development. Researchers at CoEDS will work closely with international university partners and industries to further the research and product development in this area. Currently many faculty members from various departments at TIET are working in this area.

#### ***Computer Vision***

Computer vision has applications in almost all fields ranging from Retail, Automotive, Healthcare, Agriculture, Banking, etc. CoEDS will focus on fundamental research in various areas of computer vision. The TIET faculty will work closely with industry and international researchers to develop new solutions in this field while making contributions in fundamental research. Many TIET faculty members already work in these areas. This center will give them an opportunity to extend their knowledge and contribute further. The center will also provide support to research fellows and undergraduate students to have contemporary research exposure.

#### ***Biomedical***

This area of research has a lot more potential to evolve and has an excellent capability to improve the quality of lives of human beings by early disease diagnosis and designing tailored interventions. It's evident that increased interest is developed in the areas, such as EEG, EMG, neuroimaging, gait analysis, in recent years. Many researchers across the world are conducting neuroimaging and gait assessment of subjects for building better health infrastructure and assistive technologies, such as Human Computer Interface, Robotic limbs, etc. Researchers at CoEDS will focus on these and other challenging areas of Biomedical Engineering.

#### ***Mental Workload***

The cutting edge multidisciplinary research field of Mental workload (MWL) measurement is a complex design concept in Human-Computer Interaction (HCI) and Ergonomics. It is sometimes referred to as Cognitive Psychology. Measuring MWL is essential in predicting human performance and in turn informing the design of technologies, interfaces, information-based procedures and instructions. CoEDS researchers will work closely with the psychology, biotechnology, humanities and other departments to develop and work in this area.

#### ***Cyber Security***

More personal and organizational data is being shared, captured and stored online than ever before. This digital 'treasure trove' is enticing for cybercriminals – it's estimated that by 2023 cyber-criminals will steal an estimated 33 billion records. With an estimated 12 billion records leaked in 2018, cybersecurity for data scientists is a high priority. Weaker security protocols can lead to vital business information being leaked or stolen, an expensive issue to have, with such cybersecurity breaches costing the world almost \$600bn USD in 2018. Cyber-attacks can pose a great danger to a business' success, and the expertise of data scientists is sought after in order to prevent attacks from happening. Data scientists use machine learning to identify potential cybersecurity threats, working to halt them.



Machine learning automation makes identifying any outliers in data much easier. This allows data scientists to predict risks based on past exploits and behavior patterns. Their work is vital to maintaining cybersecurity, protecting businesses and the wider community from having their information stolen. Fraudulent behavior is an area where data scientists can use machine learning to make a large difference across a number of industries. Regression (prediction) models are a great tool that use an Intrusion Detection System (IDS) to monitor computers for potential malicious attacks. Associate Rule Learning (ARL) is another example of where machine learning can prevent cyber-attacks. This works as a recommendation system, similar to how Netflix or Spotify suggests new media for consumers based on their past preferences. ARL generates a response for a particular risk based on its characteristics. Past threats with the same characteristics will help ARL understand what may or may not be a threat, constantly updating its database with new types of cyber-attacks. CoEDS researchers will work closely to understand the management, security, privacy and ethics that underpin data and information required for Malware detection, intrusion detection, social engineering and pentesting.

TIET and UQ are exploring setting up a Thapar Chair in the School of Engineering /School of Computer Science in the broad area of Data Sciences. The Chair is intended to contribute to the development of cutting-edge research in the field and support the establishment of a COE at TIET. Once agreed, UQ and TIET will jointly author a suitable job specification for the position, which will include research on agreed thematic areas, teaching in both institutions and administrative duties to support this research Centre of Excellence (COE). The Chair Professor will develop his research group both at TIET and UQ to support his/her work. The intention is that the Chair Professor will focus on attracting research funding and on publishing in high impact journals, supported by PhD students. The Chair will be responsible for developing joint research programmes between TIET and UQ, to energize the research at the COE in Patiala as well as links to Industry. TIET will be able to use UQ's research expertise in agreed thematic areas but not necessarily restricted to those thematic areas to improve the TIET research objectives.

### ○ Centre of Excellence - Smart Cities

#### Context

In Smart Cities, digital technologies translate into better public services for citizens, better use of resources and less impact on the environment. This includes data collected from citizens, devices, and assets that is processed and analysed to monitor and manage traffic and transportation systems, power plants, water supply networks, waste management, law enforcement, information systems, schools, libraries, hospitals, and other community services.

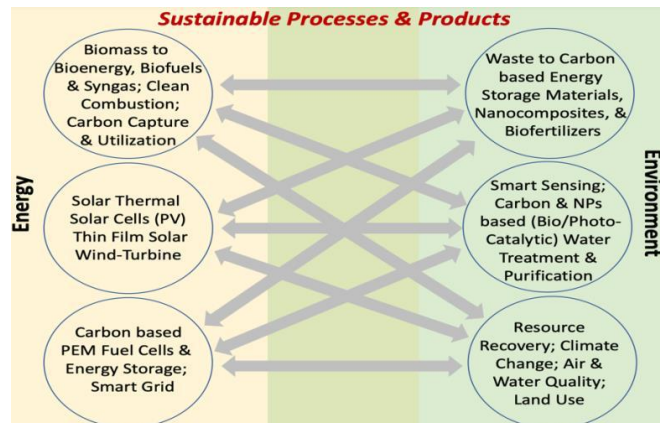
This is multi-disciplinary project, where each of the departments/schools need to work in unison to produce working prototypes. In order to realize this each of the four major components namely:

Sustainability, Efficiency, People and Security are to be prototyped. Following sub areas need to be clustered amongst various departments/units: Energy Management, Water Management, Climate Change & Flood Management, Smart Lighting, Predictive Lift Maintenance, Traffic Monitoring, Smart Home, Elderly Monitoring, Smart waste management system, Fire and Smoke detection & Prevention System, Smart CCTV: facial recognition system, Behaviour Analytics, Smart E-Health system, Autonomous Robot systems. Back-bone of such city project is Information Technology integrated fully with Unique Identity of the residents.

### o Centre of Excellence – Energy & Environment

Utilisation of waste as a resource for growing a circular (bio)economy has emerged as a topic of global importance. Unsustainable manufacturing design has led to near environmental catastrophe via the regenerative circular economy, at the least by re-capturing resources after disposal. The intrinsic value of waste must be preserved and regenerated for new resources or products. A promising vector for the recovery of organic wastes is the production of biofuels and sustainable carbon-based materials. Unlike Graphene and CNTs, sustainable carbons are not produced from fossil resources. A systematic approach to achieve commercial viability of (bio)waste feedstocks would spur a low carbon growth of the (bio)economy and controlled manufacturing of sustainable materials of the future for a productive and resilient nation. Launch of Waste to Wealth and Clean India missions and the generous research support from Indian government agencies (e.g., DST and DBT) highlights the urgency and timeliness for establishing a Centre of Excellence (CoE) in this space.

The proposed CoE will create a more resource-efficient economy in alignment with the Waste to Wealth and Clean Growth Industrial Grand Challenges in India, and will contribute directly to transforming them into sustainable societies. It is proposed to achieve this by drawing upon existing strengths in several departments (Chemical Engineering, Mechanical Engineering, and Biotechnology) and schools (Energy and Environment, Chemistry and Biochemistry, and Physics and Materials Science) at TIET. It is also planned to integrate TIFAC CORE and the L.M. Thapar School in Management for providing leadership in the role of economics and logistics for the delivery of biowaste at the volumes and price needed to realise our vision at scale. One of the objectives of this CoE is attracting large grants at TIET from Indian funding agencies after first few years of existence. It is proposed to initiate collaborations with other domestic premier institutions to enhance those prospects. In addition, stakeholders from industry and government agencies will also be invited in advisory capacity.



**Some sample projects under this centre**

**Biomass to Bioenergy, Biofuels & Syngas; Clean Combustion; Carbon Capture & Utilization**  
 Amit Dhir (SEE), Haripada Bhunia (CHE)

**Solar Thermal, Solar Cells (PV), Thin Film Solar, Wind Turbine**  
 Vikrant Khullar, Madhup K. Mittal, (ME), Bhaskar C. Mohanthy, O.P. Pandey (SPM)

**Carbon based PEM Fuel Cells & Energy Storage; Smart Grid**  
 Amandeep Singh Oberoi (ME), Mukesh Singh (EE)

**Waste to Carbon based Energy Storage Materials, Nanocomposite & Biofertilizers**  
 Amit Dhir, N. Tejoprakash (SEE), Amandeep Singh Oberoi (ME), Rajeev Mehta (CHE), B.N.Chudasama (SPM), Soumen Basu (Chemistry)

**Smart Sensing; Carbon & NPs based (Bio/Photo- Catalytic) Water Treatment & Purification**  
 Vinay Kumar, Rahil Upadhyay, (EE), Susheel Mittal (Chemistry), Jaiprakash Kushwaha, Rajkumar Gupta (CHE)

**Resource Recovery; Climate Change; Air and Water Quality, Land Use**  
 Dwarikanath Rath, Sarbjit Singh, Richa Babbar, Tapas Karmakar (CE), Neetu Singh (CHE)

○ **ThapSat**

TIET has planned a CubeSat mission named “ThapSat” for monitoring the air quality in Punjab and to study the solar weather. The idea is to develop a miniature size infrared spectroscopy to probe the chemical characteristic of pollutants like water vapour (H<sub>2</sub>O), carbon dioxide (CO<sub>2</sub>) and methane (CH<sub>4</sub>). The development of the miniature size infrared spectroscopy is one of the challenging jobs and its development is proposed under this mission. To detect the X-ray emission from Sun; another spectroscopy also has to be developed and attached in same satellite. This proposal aims to develop a student nanosatellite mission for launch by ISRO. The mission will be primarily student developed and focus on developing a pollution monitoring technique using remote sensing. It will also develop an X-Ray spectroscopy technique for detecting solar flares which can be used to increase our understanding of the solar weather.

A team of 30+ students has been picked from 5 branches of engineering. This mission is mainly oriented to fulfil our educational objectives which will provide a platform to the students for experiencing real scientific world. The institution has also proposed a plan for the development of an

aerospace laboratory setup for academic practice through this mission. An initial project timeline has been developed for the members to adhere to, in accordance to the proposed project duration of 2 years.

- **Experiential Education**

Context

Today's engineers must be versatile enough to deal with problems of industry. As industries vary so do their problems and requirements. Engineers of tomorrow must be able to meet all the requirements posed to them. It would be ideal if the graduates of today were skilled in self-learning, problem solving and have the ability to apply theoretical concepts to industrial applications.

Ability to self-learn, built around a strong basic engineering knowledge and founded on excellent soft skills such as teamwork, soft skills, and confidence, acquired via practice, are traits essential for the engineer of the tomorrow. Self-learning propels engineers to bigger and greater challenges bigger than the ones taught or imagined in the classroom.

There exists a need to modify engineering education to train engineers to deal with complex problems; to take advantage of ready access to information and to capitalize on the special talents of our students.

Experiential Education is a vehicle that offers opportunities to incorporate many of the desired traits. Universities around the world have started to recognize the need for a change in engineering education. Hands-on experience; real-world problem solving; are finding their way into engineering curricula. Although no unique solution has been identified, the general consensus is that the new paradigm must be rich on applying engineering in a real-world setting.

Experiential Education Center

A sustainable model of implementation is required. In an academic setting a sustainable model is one that comes from within and becomes engrained in the program. It is proposed to develop an experiential education center where the faculty will be engaged to work on real-world problem using undergraduate students from a variety of programs. Furthermore, the center will engage industry to bring their problems to the center for students to solve or to be involved in a problem being pursued by the center.

Experiential education can be introduced only after gaining the confidence and faith of students and faculty. Faculty must see an opportunity in innovation and in trying new paths that take you directly to the destination. Students must believe that their professor can teach them problem-solving skills required in the real world.

The method of introducing experiential education must first instil confidence in faculty. They must believe that walking this path will further their career and build unique skills in them to educate better

engineers with skills required in the real world and in industry. Second, the method must instil confidence in students that experiential education will give them the problem solving skills essential in industry. This is a tough task.

It is proposed to start with a project to solve an ambitious, futuristic and well identified societal need. The need in itself, the futuristic element and in many cases the raw ambition will attract some faculty and some students to devote their extra-curricular time to this project. We need some early wins. They are easy at this stage as the bar has not been set and any achievement is good. Success will attract other students and other faculty. The goal will be to continue building on the past projects. This combination of students and faculty can be very effective in teaching problem solving and building confidence. If this initiative is coupled with the education process its impact can be multiplied by many times. Bringing real-world problems into the classroom and allowing the students to apply classroom learning on these problems with uncertainty, ambiguity and lack of data will accomplish this. The problem solving will instil ability to define need, establish specifications, build designs, select designs, validate designs, optimize designs etc.

A multi-pronged approach is proposed for implementing experiential education. Sample of such projects are on water purification, autonomous people mover, solar power. The projects will be designed, built and operated by student teams.

#### **SUCCESS METRICS FOR THE SIX RESEARCH CENTRES OF EXCELLENCE**

- Publications in top peer reviewed journals
- Significant Industry and Government funding
- Commercialization of Research; Start ups
- Patents & IPR
- Collaborations
- 100 funded Post Docs or PhD students at any given time
- 200+ TIET faculty participating
- Continuous stream of meritorious graduate students
- Teaching Linkages

# Institutional targets

## 1. Excellence in Teaching & learning

- Train and certify all faculty in academic practices
- Continually improve the learning outcome score (minimum 3.5 on a scale of 5)
- All undergraduates in engineering will participate in one or more of the following: competitive project teams, internship, research project, outreach
- Curricula continuously accredited by NAAC, NBA or ABET
- Increase student satisfaction with academic and mentor support for developing their graduate attributes and employability (Current campus employability 90%)

## 2. Excellence in Research

- 2500 peer reviewed publications per year in Scopus by 2025; 2000 in web of science every year by 2025
- Establish six research centres in the next five years (major defined as 10+ faculty, Rs 5 crore research funding and >20 funded graduate students)
- Increase our average number of PhD students per member of academic staff to at least 2.5
- Increase our score for the citations-based measure on web of science at 15 citations per paper
- 20cr sponsored project funding by 2025

## 3. Innovative & entrepreneurial

- 20 start-up companies by 2025 functional from our venture lab
- 10-15 invited speakers on entrepreneurship every year
- Two venture lab weekend activities every year

## 4. Outstanding student experience

- Recruit at least 80% of our UG students from the top 20% All India JEE scores or 10+2 scores
- Increase the student numbers to 15000 by 2020 (current: 10000)
- Invite at least 700 employers on campus for student recruitment

- Improve the student placement from campus to 100% of all eligible students
- Organize career fairs and industry tech talks
- Hire a branding partner and use social media tools for brand enhancement

#### **5. People Development**

- Developing recruiting best practices to attract talent
- Improve the teacher-student ratio to 1:20
- Increase the faculty head count to 700+ by 2025
- One successful high-impact senior faculty recruitment per year
- Increase our number of international applications for academic posts

#### **6. World class infrastructure**

- Construct the 2<sup>nd</sup> phase of academic buildings and new student residences by 2024
- Modernize the existing academic buildings by 2025
- Upgrade and modernize the remaining labs by 2025

#### **7. Partnering for impact**

- 2<sup>nd</sup> phase of the contemporization program for 2021-2025 with major focus of research
- Improve number of our research publications which are collaboratively co-authored with other institutions
- Increase our number of students on joint programmes to 100
- Develop more joint programs with partners abroad

Respected Sir

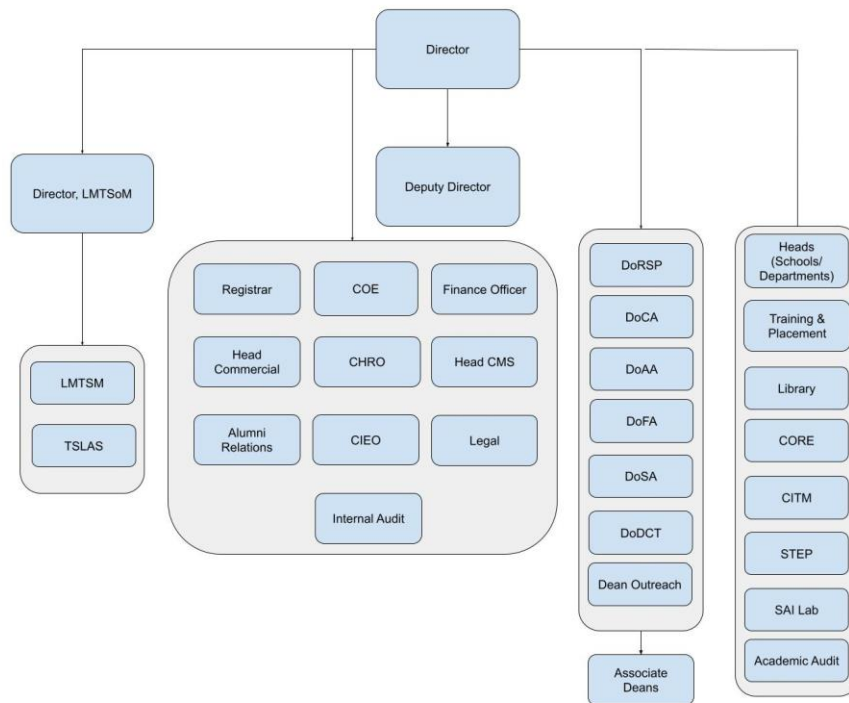
I have reviewed the hostel requirement for the next 4 years with the Dean Student Affairs as per the proposed intake indicated in the strategic plan 2021-2025. We have taken both the “best case” as well as ‘worst case’ scenarios to work out the hostel requirements. We do not see a possibility of meeting the proposed student numbers if don’t build another 928 seater boys hostel by August 2023. The broad student numbers and hostel requirements are based on following assumptions:

1. 80% students will request a hostel room. Out of this, 70% will be boys and 30% girls.
2. 928 seater girls hostel next to the Guest House will be available by August 2022
3. 378 additional beds will be available in B Hostel by August 2022

|                                                                         | 2022  | 2023        | 2024  | 2025  |
|-------------------------------------------------------------------------|-------|-------------|-------|-------|
| <b>Strength (UG/PG/PhD)</b>                                             | 11255 | 12070       | 12905 | 14475 |
| <b>Subtract Derabassi CSE</b>                                           | 300   | 360         | 420   | 540   |
| <b>Count of students of TSLAS</b>                                       | 220   | 310         | 380   | 490   |
| <b>Net student count Patiala</b>                                        | 11175 | 12020       | 12865 | 14425 |
| <b>hostel assumption (80%)</b>                                          | 8940  | 9616        | 10292 | 11540 |
| Total Capacity required<br>for <b>Boys (70% of total hostel reqd)</b>   | 6258  | 6731        | 7204  | 8078  |
| Capacity available (4336)                                               | 5627  | 5627        | 6555  | 7483  |
| Hostel 2022 (B Addition)                                                | 363   |             |       |       |
| Hostel 2023/2024                                                        |       |             | 928   |       |
| Hotel 2025                                                              |       |             |       |       |
| <b>Deficit (Boys)</b>                                                   | 631   | <b>1104</b> | 649   | 595   |
| Total Capacity required<br>for <b>Girls (30% of hostel requirement)</b> | 2682  | 2885        | 3088  | 3462  |
| Capacity available (1750)                                               | 2678  | 2678        | 2678  | 3278  |
| Hostel 2022                                                             | 928   |             |       |       |
| Hostel 2025                                                             |       |             |       | 600   |
| Deficit (Girls)                                                         | 4     | 207         | 410   | 184   |



**Annexure 10.1.1**



## **GENERAL REGULATIONS**

The Regulations have been divided into three parts:

- Part -A : General Regulations
- Part-B : Service Regulations
- Part-C : Academic Regulation

### **Part-A: GENERAL REGULATIONS PLANNING AND MONITORING BOARD**

A-1 The Planning and Monitoring Board shall consist of the following members:

- (i) Director, TU (Ex-officio) – Chairman
- (ii) Director, LMTSOM (Derabassi Off Campus) (Ex-officio) - Member
- (iii) Deputy Director(s) (Ex-officio) – Member
- (iv) All Deans (Ex-officio)
- (v) Heads of the Department / Schools / Centres (Ex-officio) – Members
- (vi) Head, Placement & Coordination (Ex-officio) – Member
- (vii) One member nominated by the University Grants Commission - Member
- (viii) Four outside experts to be nominated by the Chairman, Board of Governors - Members
- (ix) Three persons nominated by the Director from amongst the University staff for their special knowledge – Members
- (x) Assistant Engineer – Member
- (xi) Registrar (Ex-officio) – Non Member Secretary

### Powers And Functions Of The Planning And Monitoring Board

A-2 The functions of the Planning & Monitoring Board shall be to examine the question and suggest measures for raising the standard of education and research.

- (i) to prepare short-; and long-term development plans of the University keeping in view objectives of the University as laid down in the Memorandum of Association and with due regard to national policy on education.
- (ii) to monitor the implementation of the approved plans of the University, and schemes sanctioned by the U.G.C., Ministry of Education and other agencies.
- (iii) to suggest measures for raising the standard of education and research, including strengthening of inter-disciplinary programmes, cooperation between Departments/Schools/Centres of the University and schemes for inter-action between the University, Industry and other educational institutions;
- (iv) to consider any matter referred to it by the Senate/Board; and
- (v) to appoint sub-committees for specific purpose which may include persons other than the members of the Planning and Monitoring Board.

### Term of Office of Members of the Planning and Monitoring Board

- A.3.(i) All members of the Planning and Monitoring Board other than the ex- officio members, shall Hold office for a term of three years
- (ii) the planning and Monitoring Board shall meet at least twice a year.  
the procedure for calling a meeting of the Planning and Monitoring Board shall be the same as provided in Rule 29 of the University.
- (iii) one third of the total strength of the members of the planning and Monitoring Board shall form the quorum for a meeting.

### BOARD OF STUDIES

A.4. The Board of studies for each Department/School shall consist of the members as provided in the Rules of the University.

### Powers and Functions of the Board of Studies

- A.5.(i) To recommend to SUGC/SPGC the procedure for the conduct of examinations, courses of Study, and syllabi;
- (ii) to recommend the panel of examiners of various subjects/examinations; and
- (iii) to deal with any matter that may be referred to it by the Senate.

### BUILDING AND WORKS COMMITTEE

A-6 The Building and works committee shall consist of the following members:

- |       |                                                                                                                                                 |                     |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| i)    | Director, Ex-Officio                                                                                                                            | Chairman            |
| ii)   | Director, LMTSOM – Ex-officio                                                                                                                   | Member              |
| ii)   | Deputy Director, Ex-officio                                                                                                                     | Member              |
| iii)  | Superintending Engineer, PWD<br>(B&R) Patiala Circle, Ex-officio                                                                                | Member              |
| iv)   | Head, Civil Engg. Department, Ex-officio                                                                                                        | Member              |
| v)    | Two persons amongst civil Design Engineers/<br>Construction Experts/Architects to be nominated<br>by the Chairman of the Board for three Years. | Members             |
| vi)   | One member having knowledge of Finance/Accounts<br>to be nominated by Chairman, BOG for three years                                             | Member              |
| vii)  | Assistant Engineer                                                                                                                              | Member              |
| viii) | Faculty Advisors (Civil and Electrical)                                                                                                         | Member              |
| ix)   | Registrar, Ex-officio                                                                                                                           | Member<br>Secretary |

\* The nomination will be for a period of three years or till they remain members of that body, whichever is earlier.

## **Powers and Functions of the Building and Works Committee**

A-7:

- (i.) To be responsible under the direction of the Board for the Construction of all major capital works after securing from the Board the necessary approval;
- (ii.) To give approval for minor works and works pertaining to Maintenance and repairs, within the grant placed at the Disposal of the University for the purpose.
- (iii.) To cause to be prepared estimates of cost of buildings and other capital works, minor works, repairs, maintenance and the like;
- (iv.) To be responsible for technical scrutiny as considered necessary by it;
- (v.) To be responsible for enlistment of suitable contractors and acceptance of tenders and to give direction for departmental works where necessary; and
- (vi.) To settle rates not covered by tender and settle claims and disputes with contractors.

## **Terms of office of the Members of the Building and Works Committee.**

A-8

- (i.) All the members of the Building and works Committee other than the ex-officio members shall hold office for a period of three years.
- (ii.) The Committee shall have power to co-opt invitees for specific purposes.
- (iii.) The procedure for calling a meeting of Building and Works Committee shall be the same as provided in the Rule 29 of the University.
- (iv.) The quorum of the meeting shall be 4 provided that atleast one out of the members mentioned in A-6 (iii), (v) and (vi) is present.

## **SENATE UNDERGRADUATE COMMITTEE (SUGC)**

(SUGC will deal with B.E. programme)

A-9 SUGC shall consist of the following members:

- |                                                                                    |                         |
|------------------------------------------------------------------------------------|-------------------------|
| (i.) Dean of Academic Affairs,<br>Ex-officio                                       | Chairman                |
| (ii.) Heads of the Departments;<br>Ex-officio                                      | Members                 |
| (iii.) Faculty-in-charge Under-graduate<br>programme from, each Department/School; | Members                 |
| (iv.) Two members nominated by the<br>Chairman, Senate;                            | Members                 |
| (v.) Deputy Registrar (Academic & Administration)<br>(On behalf of Registry)       | Non-Member<br>Secretary |

## **SENATE POST-GRADUATE COMMITTEE (SPGC)**

(SPGC will deal with M.E., M.Phil., M.Sc., M.C.A. and Ph.D. Programmes)

A.10 SPGC shall consist of the following members:

- |                                                                                   |          |
|-----------------------------------------------------------------------------------|----------|
| (i.) Dean of Research & Development;<br>Ex-officio                                | Chairman |
| (ii.) Dean of Academic Affairs;<br>Ex-officio;                                    | Member   |
| (iii.) Heads of the Departments/<br>Schools, Ex-officio                           | Members  |
| (iv.) Faculty-in-charge Under-graduate<br>programme from, each Department/School; | Members  |
| (v.) Two members nominated by the                                                 | Members  |

- Chairman, Senate;  
(vi.) Deputy Registrar (Academic & Administration) (On behalf of Registry) Non-Member Secretary

### **Powers and Duties of SUGC/SPGC**

A-11:

- (i.) To consider the recommendations of the Board of Studies regarding the conduct of examinations, courses of study and syllabi of various programmes and make recommendations to the Senate;
- (ii.) to consider and recommend to the Senate:
  - (a) academic awards and degrees;
  - (b) recognition of Universities/Boards and qualifying examinations for admission;
- (iii.) to consider and decide
  - (a) the procedure for registration of students & conduct of examination;
  - (b) over-loading and under-loading of credits.
  - (c) additional chances of courses.
  - (d) equivalent courses for substitution; and
  - (e) detention on account of sessions and/or attendance;
- (iv.) to prepare the report on academic performance of Students for placing before the Senate; and
- (v.) any other matter referred by the Senate/Chairman, Senate.

### **Term of office and procedure for Meetings of SUGC/SPGC**

A-12:

- (i.) The term of all members, other than ex-officio Members, shall be two years
- (ii.) Half of the total number of members shall form the Quorum.
- (iii.) New Committees shall function w.e.f. first September.
- (iv.) A written notice of every meeting shall be sent by The Secretary to every member at least seven days Prior to the date of meeting. The notice shall state Place, the date and the time of the meeting.  
Notwithstanding the above provision, the Chairman Of the Committee may call an emergency meeting at a short notice to consider urgent special issues.
- (v.) The minutes of the meetings shall be prepared by the Secretary and circulated after obtaining the approval of the Chairman of the Committee.

## **DISCIPLINE COMMITTEE**

### **A-16 Student Discipline**

- (i.) For good and sufficient reasons, following punishments may be imposed on the students of the University for acts of indiscipline as given below
  - (a) Disrupt teaching, studies, examination, research or Administrative work, co-curricular or extra Curricular activity or prevent any member of the University and its staff from carrying on his work, or do any act reasonably likely to cause such disruption or prevention, such as locking of offices or any other building;
  - (b) Damage or deface any property of the University or do any act reasonably likely to cause such damage or defacing;
  - (c) Engage in any conduct which is, or is reasonably likely to be, clearly detrimental to University's purpose.
  - (d) participate in any activities, such as gherao, camping inside the boundaries of houses of teachers or officers, use of derogatory slogans, abuses and propaganda to incite hatred and violence, preparation for and resort to violence or destruction of property.
  - (e) Resort to ragging / sexual harassment in any form; and
  - (f) Take other actions which in opinion of the Director/ Deans/ Heads of Departments/ Librarian, warden and any other officer of the University performing administrative duties assigned to him within his purview, is unbecoming of the student.
- (ii) Minor Punishment
  - a. Fine upto Rs. 5000/-
  - b. Fine adequate to recop the entire financial loss to the University
  - c. Suspension from University pending enquiry by a committee.
  - d. Vacation of hostel.
- (ii) Major Punishment
  - (a) Fine exceeding Rs. 5000/-
  - (b) Rustication from University based on the findings of the enquiry committee for a semester or part thereof or for a greater period.
  - (c) Expulsion from University.
  - (d) Making an adverse entry in the character certificate to be issued by the University at the time of leaving the University.
  - (e) Debar a student from admission to any course offered by the University. Dean of Students Affairs shall have the authority to impose minor punishments after giving the students opportunity to be heard.

For major punishments, decision will be taken by the Deputy Director on the recommendations of the Students Discipline Committee constituted under A-17.

A-17 The Students Discipline Committee shall consist of the following members:

- |        |                                                                                                       |                  |
|--------|-------------------------------------------------------------------------------------------------------|------------------|
| (i.)   | Dean of Students Affairs,<br>Ex-officio;                                                              | Chairman         |
| (ii.)  | Four Professors of the University<br>appointed by the Director.                                       | Members          |
| (iii.) | One member from outside the<br>University with judicial experience.<br>appointed by the Director; and | Member           |
| (iv.)  | Registrar, ex-officio,                                                                                | Member-Secretary |

A-18 The term of office of the members, other than the ex-officio members of the Discipline Committee will be two years.

A-19 If a student is dissatisfied with the penalty imposed upon him, he may make a written appeal within 10 days, to the Director whose decision shall be final.

## **COMPOSITION AND POWERS OF STATUTORY BODIES**

### **BOARD OF GOVERNORS**

#### **Powers and Functions**

The Board of Governors shall be the principal executive body of the University and be responsible for the general superintendence, direction and control of the affairs of the University not otherwise provided in the Memorandum of Association, Rules and Regulations. Without prejudice to the provisions of the Memorandum of Association, Rules and Regulations, the Board shall also have the following powers:-

- (i) to manage, administer and review the affairs of the University and to conduct all administrative affairs of the University not otherwise provided for;
- (ii) to create, keep in abeyance, or abolish any post or cadres;
- (iii) to lay down qualifications and experience, fix emoluments; and to define duties and conditions of service of the staff of the University. Provided that no action shall be taken by the Board in respect of numbers and emoluments of the staff without consulting the Finance Committee. Provided further that no action shall be taken by Board in respect of qualifications and experience of academic staff without consulting the Senate;
- (iv) to appoint academic, administrative and technical staff as provided in the Rules and Regulations;
- (v) to regulate and enforce discipline amongst employees, and to impose penalty on the members of staff in accordance with the Rules and Regulations.
- (vi) to appoint the Auditors of the University;
- (vii) to consider and adopt the Annual Report, Annual Accounts, and to approve the Budget Estimate and Development Plans of the University;
- (viii) to manage and regulate the finances, accounts, investments, property and all other administrative affairs of the University and for that purpose to delegate/appoint such committees/agencies as it may deem fit;
- (ix) to invest any money belonging to the University including any unapplied income in such stocks, funds, shares or securities as it shall from time to time think fit in consultation with the Finance Committee;
- (x) to borrow, with the approval of the President on the security of the property of the University, money for the purpose of the University;
- (xi) to enter into arrangements with the Government, UGC, and other public and private organisations or individuals for securing and accepting endowments, grants-in-aid, donations or gifts to the University on mutually agreed terms and conditions, provided that the conditions of such grants-in-aid, donations or gifts, if any, shall not be in conflict with nature of objects of the University or with the provisions of the Rules;
- (xii) to take over and acquire by purchase, gift or otherwise any movable or immovable properties, endowments or other funds together with any attendant obligations and engagement not inconsistent with the objects stated in the Memorandum of Association and the provisions of the Rules;
- (xiii) to fix admission fees and other fees to be charged from the students and scholars;
- (xiv) to demand and receive payment of fees and other charges;
- (xv) to fix emoluments, travelling and other allowances for examiners, and moderators on the recommendations of the Senate and the Finance Committee;
- (xvi) to admit Corporate Members, and to fix initial contribution and annual subscription for such members;
- (xvii) to provide buildings, premises, furniture, fixtures and apparatus and other means needed for carrying on the work of the University;
- (xviii) to enter into, vary, carryout and cancel contracts on behalf of the University;
- (xix) to entertain, adjudicate upon and, if thought fit, to redress any grievances of the employees and students and scholars of the University who may for any reason feel aggrieved;
- (xx) to select a Common Seal for the University and provide for the custody and use of such seal;
- (xxi) to create Departments, Schools, Centres and such other units for instructions, training, research and extension;
- (xxii) to institute courses of study leading to a degree, diploma or a certificate on the recommendation of the Senate;



- (xxiii) to approve the procedure for admission of students and scholars to the University on recommendations of the Senate;
- (xxiv) to institute fellowships, scholarships, studentships, medals and prizes;
- (xxv) to review the decisions of the Senate;
- (xxvi) to delegate its powers to the Chairman, Director or others officers of the University;
- (xxvii) to appoint Committees for such purposes and with such powers as the Board may think fit;
- (xxviii) to lay down the procedures for prior consultation of the Senate on academic matters in so far as these are not inconsistent with the provisions of the Rules; and
- (xxix) to exercise such other power and perform such other duties as may be conferred on it under the Rules, or as may be considered expedient for achieving the objects of the University.
- (xxx) to grant leave of absence to the Director or any other officer of the University and to make necessary arrangement for carrying on the functions of the officers proceeding on leave during their absence.
- (xxxi) to open account or accounts of the University with any one or more scheduled banks and to lay-down the procedure for operating the same.
- (xxxii) to draw and accept and make and endorse discount and negotiate Government of India's and other promissory notes, bills and exchange, cheques or other negotiable instruments.
- (xxxiii) to transfer or accept transfers of any moveable property on behalf of the University.
- (xxxiv) to advise the Holding Trustees (if any) on matters regarding acquisition, management and disposal of any immovable property on behalf of the University.
- (xxxv) to appoint in order to execute an instrument or transact any business of the University, any person as attorney of the University with such powers as it may deem fit.
- (xxxvi) to conduct examinations or tests for admission to the courses taught in the University, to conduct examinations for Degrees and diplomas and to declare the results of such examinations and tests and to confer, grant or award Degrees, Diplomas, Certificates and other academic titles and distinctions.
- (xxxvii) to recognize and maintain control and supervision on hostels owned and managed by other agencies for the students of the University and to rescind such recognition.
- (xxxviii) to execute in consultation with the Holding Trustees (if any) conveyance, transfer, Government Securities, re-conveyances, mortgages, leases, bonds, licenses and agreements in respect of property, moveable or immovable belonging to the University or to be acquired for the purposes of the University.
- (xxxix) In consultation with the Holding Trustees (if any) to raise and borrow money on bonds, mortgages, promissory notes or other obligations or securities founded or based of any of the properties and assets of the University or without any securities and upon such terms and conditions as it may think fit and to pay out of the funds of the University, all expenses, incidental to the raising of money and to repay and redeem any money borrowed.
- (xl) It shall also be responsible to maintain harmonious relations with Patiala Technical Educational Trust', "The holding & sponsoring Trust".
- (xli) To manage off-campus in the Country and off-shore campuses.

### **Constitution of Board of Governors**

8. The Board of Governors shall consist of the following members:-

- (i) the Chairman
- (ii) the Vice Chairman;
- (iii) the Director, ex-officio;
- (iv) three nominees of the Trust to be nominated by the Chairman of the Trust
- (v) three persons having special knowledge in education, management and engineering or sciences to be nominated by the President.
- (vi) two persons with industry background to be nominated by the President;
- (vii) one person nominated by the Ministry of Education, Government of India;
- (viii) one person nominated by the Chairman Northern Regional Council, A.I.C.T.E.;
- (ix) one person nominated by the Chairman, U.G.C.;
- (x) the Secretary, Department of Technical Education, Punjab Government, ex-officio;
- (xi) the Secretary, Department of Finance, Punjab Govt. or his nominee not below the rank of Deputy Secretary Finance, Punjab Government, ex-officio;

- (xii) one Distinguished Professor / Senior Professor / Professor of the University by rotation in order of seniority; and
- (xiii) one Associate Professor of the University in the order of seniority;
- (xiv) one Assistant Professor of the University by rotation in the order of seniority.
- (xv) Director, National Institute of Technical Teachers Training & Research, Chandigarh, ex-officio.

## **SENATE**

### **Powers and Duties of the Senate**

The Senate shall be the principal academic body of the University and shall in addition to all other powers vested in it, have the following powers:-

- (i) to exercise general supervision over the academic work of the University and to give directions regarding methods of instruction evaluation and improvement in academic standards.
- (ii) to promote research within the University and to require from time to time reports on such research;
- (iii) to consider matters of general academic interest either on its own initiative or referred to it by the Board and to take appropriate action thereon;
- (iv) to arrange conduct of examination of students and scholars in conformity with the Regulation;
- (v) to maintain proper standards of examinations;
- (vi) to recognize diplomas and degrees of other Universities and Institutions and to determine their equivalence with the diplomas and degrees of the University;
- (vii) to frame and revise curricula and syllabi of courses offered by various Departments and Schools on the recommendation of Board of Studies.
- (viii) to appoint examiners, moderators, tabulators and the likes for different examinations;
- (ix) to suggest measures on inter-departmental coordination;
- (x) to recommend to the Board:-
  - (a) measures for improvement of standards of teaching and research;
  - (b) institution of Fellowships, Traveling Fellowships, Scholarships, Medals, Prizes etc.;
  - (c) establishment or abolition of Departments/ Schools/Centres;
  - (d) courses of study leading to degrees, diplomas and certificates of the University;
  - (e) number of and qualifications for academic posts;
  - (f) allocation of academic posts to Departments, Schools and Centres;
  - (g) Regulations regarding the academic functions of the University, discipline, residence, admissions, examinations, awards of Fellowships and Studentships, fee concessions, corporate life and attendance; and
  - (h) procedure for admission of students and scholars to the University.
- (xi) to appoint sub-committees to advise on such specific matters as may be referred to it by the Board.
- (xii) to consider the recommendations of the sub-committees and to take such action (including making of recommendations to the Board) as the circumstances of each case may require;
- (xiii) to make periodical review of the activities of the Departments, Schools and Centres and to take appropriate action (including making of recommendations) with a view to maintaining and improving the standards of instructions and research;
- (xiv) to make proposals for institution of research, specialized studies, libraries, laboratories, museums, etc.;
- (xv) to exercise such other powers and perform such other duties as may be conferred or imposed upon it by the Rules and Regulations.

### **Constitution of Senate**

The Senate shall consist of the following persons, namely:-

- (i) the Director, ex-officio, who shall be the Chairman of the Senate.
- (ii) Deputy Director(s), if any, ex-officio;
- (iii) Dean(s); if any, ex-officio;
- (iv) Heads of the Departments, Schools and Centres and Head, Placement & Coordination, ex-officio;
- (v) Distinguished Professors / Senior Professors / Professors, other than the Heads of Departments, Schools
- (vi) three Associate Professors from the Departments / Schools other than the Heads of Departments by rotation in order of seniority nominated by the Director
- (vii) three Assistant Professors from the Departments / Schools by rotation in order of seniority nominated by the Director;
- (viii) two teachers of the University for their special knowledge appointed by the Director;
- (ix) the Librarian of the University, ex-officio;

- (x) the Workshop Superintendent of the University, ex-officio;
- (xi) three persons from amongst educationists of repute or persons from any other field related to the activities of the University, who are not in the service of the University nominated by President;
- (xii) three persons who are not members of the teaching staff coopted by Senate for their specialized knowledge.
- (xiii) Director, National Institute of Technical Teachers Training & Research, Chandigarh, ex-officio;

## **FINANCE COMMITTEE**

### **Powers & Functions of the Finance Committee**

- (a) The Finance Committee shall meet at least twice every year to examine the accounts and scrutinize proposals for expenditure.
- (ii) The Budget Estimate and the Annual Accounts of the University shall be laid before the Finance Committee for consideration and comments and thereafter submitted to the Board.
- (iii) No expenditure will be incurred by the University, in excess of the limits so fixed and as provided in the budget, without approval of the Finance Committee.
- (iv) All major investment proposals will be scrutinized by the Committee.
- (v) Committee will examine the reports of Internal Auditors as well as Statutory Auditors & review the progress of Internal Audit & Statutory Audit to satisfy that systems and controls are in place.
- (vi) The procedure for calling a meeting of the Finance Committee shall be same as for the Board. Membership of Finance Committee

### **Membership of Finance Committee**

- (i) The Chairman, Board of Governors - Chairman;
- (ii) The Director;
- (iii) One person nominated by the President;
- (iv) Four persons nominated by the Board, one of whom shall be a person with special knowledge of Accounts and Finance;
- (v) A representative of the UGC;
- (vi) A representative of the State Government;

## **PLANNING & MONITORING BOARD**

### **Powers and Functions**

The functions of the Planning & Monitoring Board shall be to examine the question and suggest measures for raising the standard of education and research.

- (vi) To prepare short-; and long-term development plans of the University keeping in view objectives of the University as laid down in the Memorandum of Association and with due regard to national policy on education.
- (vii) To monitor the implementation of the approved plans of the University, and schemes sanctioned by the U.G.C., Ministry of Education and other agencies.
- (viii) To suggest measures for raising the standard of education and research, including strengthening of inter-disciplinary programmes, cooperation between Departments/Schools/Centres of the University and schemes for inter-action between the University, Industry and other educational institutions;
- (ix) To consider any matter referred to it by the Senate/Board; and
- (x) To appoint sub-committees for specific purpose which may include persons other than the members of the Planning and Monitoring Board.

### **Constitution of Planning & Monitoring Board:**

- (xii) Director, TU (Ex-officio) – Chairman
- (xiii) Director, LMTSOM (Derabassi Off Campus) (Ex-officio) - Member
- (xiv) Deputy Director(s) (Ex-officio) – Member
- (xv) All Deans (Ex-officio)
- (xvi) Heads of the Department / Schools / Centres (Ex-officio) – Members
- (xvii) Head, Placement & Coordination (Ex-officio) – Member
- (xviii) One member nominated by the University Grants Commission - Member
- (xix) Four outside experts to be nominated by the Chairman, Board of Governors - Members
- (xx) Three persons nominated by the Director from amongst the University staff for their special knowledge – Members
- (xxi) General Manager (Estate) (Ex-officio)
- (xxii) Deputy General Manager (CMS) (Ex-officio)
- (xxiii) Registrar (Ex-officio) – Non Member Secretary

## **BUILDING & WORKS COMMITTEE**

### **Powers and Functions**

- (vii.) To be responsible under the direction of the Board for the Construction of all major capital works after securing from the Board the necessary approval;
- (viii.) To give approval for minor works and works pertaining to Maintenance and repairs, within the grant placed at the Disposal of the University for the purpose.
- (ix.) To cause to be prepared estimates of cost of buildings and other capital works, minor works, repairs, maintenance and the like;
- (x.) To be responsible for technical scrutiny as considered necessary by it;
- (xi.) To be responsible for enlistment of suitable contractors and acceptance of tenders and to give direction for departmental works where necessary; and
- (xii.) To settle rates not covered by tender and settle claims and disputes with contractors.

### **Constitution**

- |        |                                                                                                                                                 |                         |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| (i)    | Director, Thapar University                                                                                                                     | Chairman                |
| (ii)   | Director, LMTSM                                                                                                                                 | Member                  |
| (iii)  | Deputy Director(s)                                                                                                                              | Members                 |
| (iv)   | Superintending Engineer, PWD (B&R) Patiala Circle                                                                                               | Member                  |
| (v)    | Head, Civil Engineering Department                                                                                                              | Member                  |
| (vi)   | Two persons amongst civil Design Engineers/Construction Experts/Architects to be nominated by the Chairman, Board of Governors for three Years. | Members                 |
| (vii)  | One member having knowledge of Finance/Accounts to be nominated by Chairman, Board of Governors for three years.                                | Member                  |
| (viii) | General Manager(Estate)                                                                                                                         | Member                  |
| (ix)   | Deputy General Manager (CMS) (Ex-officio)                                                                                                       | Member                  |
| (x)    | Faculty Advisor (Civil & Electrical)                                                                                                            | Members                 |
| (xi)   | Registrar                                                                                                                                       | Non member<br>Secretary |

## **STAFF AFFAIRS COMMITTEE**

### **Powers and Functions:**

- (i) To examine from time to time suggestions / proposals regarding staff structure, creation of cadres, creation of new posts, minimum qualifications and experience for posts, promotion cases, adhoc, personal or otherwise and to make appropriate recommendations to the Board.
- (ii) To examine the policy matters related to teaching and non-teaching staff and make appropriate recommendations to the Board.

### **Constitution:**

- |       |                                                                                             |                         |
|-------|---------------------------------------------------------------------------------------------|-------------------------|
| (i)   | Chairman, Board of Governors                                                                | Chairman                |
| (ii)  | Three members to be nominated by the Chairman from the members of the Board of Governors    | Member                  |
| (iii) | Director, Thapar University                                                                 | Member                  |
| (iv)  | Director, LMTSM                                                                             | Member                  |
| (v)   | Finance Officer                                                                             | Member                  |
| (vi)  | Three teachers of the University to be nominated from the members of the Board of Governors | Member                  |
| (vii) | Registrar                                                                                   | Non Member<br>Secretary |

## **ADMINISTRATIVE BODIES**

### **Board of Governors**

The Board of Governors is the principal executive body of the University, and is responsible for direction and control of the affairs of the University. It exercises the powers of the University not otherwise provided in the Memorandum of Association and Rules & Regulations. It creates, keeps in abeyance or abolishes any post or cadres; lays down the qualifications, experience and emoluments; defines duties and conditions of service of staff; appoints academic, administrative and technical staff; regulates and enforces discipline amongst employees; adopts the Annual Report and Annual Accounts; approves the Budget Estimate and Development Plans; manages & regulates the finances, accounts, investments, property and all other administrative affairs; fixes admission fee, scholarships, prizes, emoluments etc; and oversees all other matters related to the University.

### **Planning & Monitoring Board**

The Planning & Monitoring Board has been constituted for preparing development plans of the University, monitoring the implementation of approved plans of the University and schemes sanctioned by U.G.C. and other agencies, and for considering all those matters which have been referred to it by the Board of Governors.

### **Senate**

The Senate is the principal academic body of the University and exercises general supervision over the academic work, promotes research activities, maintains proper standards of examination, frames and revises curricula and syllabi of courses, makes proposals for institution of research, specialized studies, libraries, laboratories etc. and all other academic matters related to the University.

### **Finance Committee**

The Finance Committee has been constituted for preparing the Budget estimates and Annual Accounts of the University. The Finance Committee has fixed the limits of total recurring and non-recurring expenditures based on the income and resources of the University.

### **Staff Affairs Committee**

The Staff Affairs Committee has been constituted to review the staff structure, suggestions regarding revision of cadre, creation of new posts, minimum qualification and experience of staff including promotion cases, recruitment policies, procedure for recruitment and all other matters related to the staff of the University.

### **Building & Works Committee**

This committee looks after all major construction works under the direction of the Board, and minor works within the grant placed at the disposal of the University. It is responsible for the enlistment of suitable contractors and acceptance of tenders and preparation of estimates of cost of buildings and other works i.e. capital, minor repair or maintenance.



**Annexure 10.1.2**

**MEMBERS OF BOARD OF GOVERNORS (BoG)**

**BOARD OF GOVERNORS FROM (1.1.2022 TO 31.12.2024)**

| <b>Sr. No.</b> | <b>CONSTITUENCY</b>                                                                                                 | <b>NAME &amp; ADDRESS</b>                                                                                                                                                                                                                                                                                       |
|----------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (i)            | The Chairman                                                                                                        | Shri R. R. Vederah<br>Chairman<br>Board of Governors, TIET<br>First India Place,<br>Tower C, 5 <sup>th</sup> Floor<br>Mehrauli Gurgaon Road<br>GURGAON - 122 002.                                                                                                                                               |
| (ii)           | The Vice Chairman                                                                                                   | ---                                                                                                                                                                                                                                                                                                             |
| (iii)          | The Director, ex-officio                                                                                            | Dr. Padmakumar Nair<br>Director, TIET                                                                                                                                                                                                                                                                           |
| (iv)           | Three nominees of the Trust to be nominated by the Chairman of the Trust                                            | Shri Jaspreet Singh<br>16A, Palam Marg<br>Vasant Vihar<br>NEW DELHI .<br><br>Mr. Aditya Singh<br>C-3, Maharani Bagh<br>NEW DELHI - 110-065.<br><br>Ms. Sita Sophie Thapar,<br>38 Cadogan Pl,<br>Belgravia,<br>London SW1X 9RX                                                                                   |
| (v)            | Three persons having special knowledge in education, management, engineering or sciences nominated by the President | Dr. A. Sivathanu Pillai<br>Distinguished Scientist<br>DRDO<br>BANGALORE.<br><br>Shri J.S. Neerav<br><br>Flat 303 /Tower 5 ,<br><br>Paraswnath Greenville,<br><br>Sohna Road ,<br>GURGAON - 122001<br><br>Ms. Yashashree Gurjar<br>901, Sovereign Apartments<br>Central Avenue, Kalyani Nagar<br>PUNE - 411 006. |
| (vi)           | Two persons with industry background to be nominated by the President;                                              | == VACANT ==<br><br>== VACANT ==                                                                                                                                                                                                                                                                                |

- |        |                                                                                                                                         |                                                                                                                                                                  |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (vii)  | One person nominated by the Ministry of Education Govt. of India, Ministry of Human Resource & Development                              | - Nomination awaited -                                                                                                                                           |
| (viii) | One person nominated by the Chairman, Northern Regional Council, AICTE                                                                  | - Nomination awaited -                                                                                                                                           |
| (ix)   | One person nominated by the Chairman, UGC                                                                                               | - Nomination awaited -                                                                                                                                           |
| (x)    | The Secretary, Department of Technical Education, Punjab Government (ex-officio)                                                        | Principal Secretary to Govt. Punjab<br>Department of Technical Education & Industrial Training<br>Punjab Mini Secretariat,<br>Sector - 9<br>CHANDIGARH - 160 009 |
| (xi)   | The Secretary, Department of Finance, Punjab Govt. ex-officio or his nominee not below the rank of Deputy Secretary, Finance, Pb. Govt. | <b>Principal Secretary to Govt.<br/>Punjab</b><br>Department of Finance<br>Punjab Mini Secretariat<br>Sector - 9<br>CHANDIGARH - 160 003.                        |
| (xii)  | One Distinguished Professor / Professor of the University by rotation in order of seniority; (Upto 1.1.2022 to 31.12.2023)              | Dr. (Mrs.) Seema Bawa<br>Professor<br>Department of Computer Science & Engineering                                                                               |
| (xiii) | One Associate Professor of the Institute in the order of Seniority (Upto 1.1.2022 to 31.12.2023)                                        | Mr. A.S. Jawanda<br>Associate Professor<br>Department of Mechanical Engineering                                                                                  |
| (xiv)  | One Assistant Professor of the Institute by rotation in order of Seniority (1.1.2023 to 31.12.2024)                                     | Dr. Ajay Kakkar<br>Assistant Professor<br>Department of Electronics & Communication Engineering                                                                  |
| (xv)   | Director, National Institute of Technical Teachers' Training & Research, Chandigarh                                                     | Prof. S.S. Pattnaik<br>Director<br>National Institute of Technical Teachers' Training & Research<br>Sector 26<br>CHANDIGARH - 160 019.                           |
| (xvi)  | Registrar, (Ex-Officio)                                                                                                                 | Dr. Gurbinder Singh                                                                                                                                              |

Secretary

Permanent Invitee

Shri Gautam Thapar  
President, TIET  
First India Place,  
Tower C, 5<sup>th</sup> Floor  
Mehrauli Gurgaon Road  
GURGAON - 122 002.

Controller of Examination  
(Permanent Invitee)

Dr. S.S. Bhatia  
COE

Special Invitees

Dr. Rajesh Chakrabarti  
Director, LMTSM

Dr. Ajay Batish  
Deputy Director

**Annexure 10.1.3**

**MEMBERS OF SENATE**

**SENATE (1.1.2022 TO 31.12.2023)**

| <b>S. No.</b> | <b>CONSTITUTION</b>                                          | <b>MEMBERS</b>         |
|---------------|--------------------------------------------------------------|------------------------|
| 1.            | The Director, TIET (ex-officio) –<br>Chairman                | Dr. Padmakumar Nair    |
| 2.            | Director, LMTSM (ex-officio)                                 | Dr. Rajesh Chakrabarti |
| 3.            | Deputy Director(s) (ex-officio)                              | Dr. Ajay Batish        |
| 4.            | Deans (Ex-Officio)                                           |                        |
|               | (a) Dean, Academic Affairs                                   | Dr. Maninder Singh     |
|               | (b) Dean, Faculty Affairs                                    | Dr. R.S. Kaler         |
|               | (c) Dean of Student Affairs                                  | Dr. Inderveer Chana    |
|               | (d) Dean of Research & Development<br>Cell                   | Dr. N. Tejo Parkash    |
|               | (e) Dean, Outreach                                           | Dr. Seema Bawa         |
|               | (f) Dean of Digital Content<br>Transformation                | Dr. Neeraj Kumar       |
|               | (g) Dean, Sustainability                                     | Dr. Rafat Siddique     |
|               | (h) Dean of Contemporization and<br>Accreditation            | Dr. Ajay Batish        |
| 5.            | Controller of Examination (ex-officio)                       | Dr. S.S. Bhatia        |
| 6.            | Head of Departments / Schools (Ex-<br>officio)               |                        |
|               | (a) Department of Biotechnology                              | Dr. M.S. Reddy         |
|               | (b) Department of Chemical Engineering                       | Dr. Rajeev Mehta       |
|               | (c) Department of Civil Engineering                          | Dr. Prem Pal Bansal    |
|               | (d) Department of Computer Science &<br>Engineering          | Dr. Shalini Batra      |
|               | (e) Department of Electronics &<br>Communication Engineering | Dr. Alpana Aggarwal    |
|               | (f) Department of Electrical &                               | Dr. R.S. Kaler         |

| S. No. | CONSTITUTION                                                 | MEMBERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | Instrumentation Engineering                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | (g) Department of Mechanical Engineering                     | Dr. Tarun Kumar Bera                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|        | (h) School of Chemistry & Biochemistry                       | Dr. Satnam Singh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | (i) School of Humanities & Social Sciences                   | Prof. Kaustuv Roy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|        | (j) School of Mathematics                                    | Dr. Mahesh Kumar Sharma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|        | (k) School of Physics & Material Science                     | Dr. Kulvir Singh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | (l) School of Energy & Environment                           | Dr. Anoop Kumar Verma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|        | (m) School of Liberal Arts and Sciences                      | Dr. (Mrs.) Santha Kumari                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 7.     | All professors other than the heads of Departments / Schools | <p data-bbox="927 890 1276 1024">Dr. S.K. Mohapatra<br/>Senior Professor<br/>Department of Mechanical Engineering</p> <p data-bbox="927 1066 1406 1171">Dr. O.P. Pandey<br/>Senior Professor<br/>School of Physics &amp; Material Science</p> <p data-bbox="927 1213 1406 1318">Dr. Bonamali Pal<br/>Professor<br/>School of Chemistry &amp; Biochemistry</p> <p data-bbox="927 1360 1308 1495">Dr. Rajesh Khanna<br/>Professor<br/>Department of Electronics &amp; Communication Engineering</p> <p data-bbox="927 1537 1308 1671">Dr. Kulbir Singh<br/>Professor<br/>Department of Electronics &amp; Communication Engineering</p> <p data-bbox="927 1713 1406 1818">Dr. Amjad Ali<br/>Professor<br/>School of Chemistry &amp; Biochemistry</p> <p data-bbox="927 1860 1308 1965">Dr. Sanjai Saxena<br/>Professor<br/>Department of Biotechnology</p> <p data-bbox="927 2007 1219 2037">Dr. Ravinder Agarwal</p> |



| S. No. | CONSTITUTION | MEMBERS                                                                                      |
|--------|--------------|----------------------------------------------------------------------------------------------|
|        |              | Professor<br>Department of Electrical &<br>Instrumentation Engineering                       |
|        |              | Dr. Smarajit Ghosh<br>Professor<br>Department of Electrical &<br>Instrumentation Engineering |
|        |              | Dr. Moushumi Ghosh<br>Professor<br>Department of Biotechnology                               |
|        |              | Dr. Niranjan Das<br>Professor<br>Department of Biotechnology                                 |
|        |              | Dr. Haripada Bhunia<br>Professor<br>Department of Chemical Engineering                       |
|        |              | Dr. (Ms.) Ravi Kiran<br>Professor<br>School of Humanities and Social<br>Sciences             |
|        |              | Dr. Dinesh Goyal<br>Professor<br>Department of Biotechnology                                 |
|        |              | Dr. Rajesh Kumar<br>Professor<br>Department of Computer Science &<br>Engineering             |
|        |              | Dr. Sanjay Sharma<br>Professor<br>Department of Electronics &<br>Communication Engineering   |
|        |              | Dr. Manoj Kumar Sharma<br>Professor<br>School of Physics & Material Science                  |
|        |              | Dr. Naveen Kwatra<br>Professor<br>Department of Civil Engineering                            |
|        |              | Dr. A.K. Lal<br>Professor                                                                    |

| S. No. | CONSTITUTION | MEMBERS                                                                                         |
|--------|--------------|-------------------------------------------------------------------------------------------------|
|        |              | School of Mathematics                                                                           |
|        |              | Dr. Raj Kumar Gupta<br>Professor<br>Department of Chemical Engineering                          |
|        |              | Dr. Anil Kumar Verma<br>Professor<br>Department of Computer Science &<br>Engineering            |
|        |              | Dr. Ranjana Prakash<br>Professor<br>School of Chemistry & Biochemistry                          |
|        |              | Dr. Mandeep Singh<br>Professor<br>Department of Electrical &<br>Instrumentation Engineering     |
|        |              | Dr. Sanjay Kumar Jain<br>Professor<br>Department of Electrical &<br>Instrumentation Engineering |
|        |              | Dr. Manmohan Chhiber<br>Professor,<br>School of Chemistry & Biochemistry                        |
|        |              | Dr. Anil Kumar<br>Professor<br>Department of Biotechnology                                      |
|        |              | Dr. Deepak Gumber<br>Professor<br>School of Mathematics                                         |
|        |              | Dr. Puneet Sharma<br>Professor<br>School of Physics & Material Science                          |
|        |              | Dr. Ajit Kumar Sinha<br>Professor<br>School of Liberal Arts and Sciences                        |
|        |              | Dr. Kaustuv Roy<br>Professor<br>School of Liberal Arts and Sciences                             |
|        |              | Dr. Kamaldeep Paul                                                                              |

| S. No. | CONSTITUTION | MEMBERS                                                                                       |
|--------|--------------|-----------------------------------------------------------------------------------------------|
|        |              | Professor<br>School of Chemistry & Biochemistry                                               |
|        |              | Dr. Chudasama Bhupendrakumar<br>Professor<br>School of Physics & Material Science             |
|        |              | Dr. Parteek Kumar<br>Professor<br>Department of Computer Science & Engineering                |
|        |              | Dr. Shruti Sharma<br>Professor<br>Civil Engineering Department                                |
|        |              | Dr. Shweta Goyal<br>Professor<br>Civil Engineering Department                                 |
|        |              | Dr. Rajiv Sarin<br>Professor<br>School of Liberal Arts & Sciences                             |
|        |              | Dr. Manoj Barnwal<br>Professor<br>Department of Biotechnology                                 |
|        |              | Dr. Amit Dhir<br>Professor<br>School of Energy & Environment                                  |
|        |              | Dr. Dwarika Nath Ratha<br>Professor<br>Department of Civil Engineering                        |
|        |              | Dr. Sunil Kumar Singla<br>Professor<br>Department of Electrical & Instrumentation Engineering |
|        |              | Dr. Mukesh Singh<br>Professor<br>Department of Electrical & Instrumentation Engineering       |
|        |              | Dr. Tarun Nanda<br>Professor<br>Department of Mechanical Engineering                          |

| S. No. | CONSTITUTION                                                                                                                                                                                                                       | MEMBERS                                                                                                                                                                                                                                                            |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                                                                                                                                                                                                                    | Dr. Soumya S. Mallick<br>Professor<br>Department of Mechanical Engineering                                                                                                                                                                                         |
|        |                                                                                                                                                                                                                                    | Dr. Dheeraj Gupta<br>Professor<br>Department of Mechanical Engineering                                                                                                                                                                                             |
|        |                                                                                                                                                                                                                                    | Dr. Vijay Luxami<br>Professor<br>School of Chemistry & Biochemistry                                                                                                                                                                                                |
|        |                                                                                                                                                                                                                                    | Dr. Soumen Basu<br>Professor<br>School of Chemistry & Biochemistry                                                                                                                                                                                                 |
|        |                                                                                                                                                                                                                                    | Dr. Bhaskar C. Mohanty<br>Professor<br>School of Physics & Material Science                                                                                                                                                                                        |
|        |                                                                                                                                                                                                                                    | Dr. Soumendu Jana<br>Professor<br>School of Physics & Material Science                                                                                                                                                                                             |
| 8.     | Two Associate Professors from the Departments / Schools other than the Heads of Departments by rotation of seniority nominated by the Director                                                                                     | Dr. Karminder Ghuman<br>Associate Professor, LMTSM<br><br>Dr. Amit Kumar Kohli<br>Associate Professor, ECED                                                                                                                                                        |
| 9.     | Two Assistant Professors from the Departments / Schools by rotation in order of seniority nominated by the Director;                                                                                                               | Dr. Amit Kumar Bhardwaj,<br>Assistant Professor, LMTSM<br><br>Dr. Vikas<br>Assistant Professor, SOM                                                                                                                                                                |
| 10.    | Three persons from amongst educationalists of repute or persons from any other field related to the activities of the Institute, who are not in the service of the Institution deemed to be University, nominated by the President | Prof. Sanjeev Kumar Thakkar<br>Professor<br>Department of Mechanical Engineering<br>Punjab engineering College<br>CHANDIGARH.<br><br>Dr. Niladri Chatterjee<br>Chair Professor<br>Department of Mathematics<br>Indian Institute of Technology, Delhi<br>NEW DELHI. |

| S. No. | CONSTITUTION                                                                                                   | MEMBERS                                                                                                                                             |
|--------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 11.    | Three persons who are not members of the teaching staff coopted by the Senate for their specialized knowledge. | Prof. Manoranjan Parida<br>Deputy Director & Professor<br>Department of Civil Engineering<br>Indian Institute of Technology,<br>Roorkee<br>ROORKEE. |
|        |                                                                                                                | Dr. H.S. Bawa<br>Head, CILP<br><br>Dr. Seema Bawa<br>Professor & Head, Central Library                                                              |
| 12.    | Registrar (Ex-Officio) - Secretary                                                                             | CA Pankaj Sinha<br>Finance Officer<br><br>Dr. Gurbinder Singh                                                                                       |

**Annexure 10.1.4**

**Few sample minutes of the meetings and action-taken reports**

# THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed to be University)

## MINUTES OF THE 156<sup>TH</sup> MEETING OF BOARD OF GOVERNORS HELD ON JUNE 20, 2023 AT 11.00 AM.

The meeting was held at FIP, Gurugram as well as through Zoom Platform and the following were attended the meeting:

### **Members Present:**

1. Mr. R.R. Vederah - Chairman
2. Mr. J.S. Neerav - Nominee of President
3. Dr. Padmakumar Nair - Director, TIET
4. Dr. A. Sivathanu Pillai - Nominee of President
5. Mr. Jaspreet Singh - Nominee of Trust
6. Mr. Aditya Singh - Nominee of Trust
7. Ms. Yashashree Gurjar - Nominee of President
8. Dr. Darshan Singh Sidhu - For Additional Chief Secretary, Department of Technical Education, Punjab Govt.
9. Mr. Jatinder Kumar - For Principal Secretary, Finance Department, Punjab Govt.
10. Dr. Seema Bawa - Nominated Professor
11. Mr. A.S. Jawanda - Nominated Associate Professor
12. Dr. Ajay Kakkar - Nominated Assistant Professor
13. Dr. Bhola Ram Gurjar - Director, NITTTR

### **In attendance:**

14. Dr. Gurbinder Singh – Non-member Secretary

### **Invitees:**

15. Mr. Gautam Thapar – Permanent Invitee
16. Dr. Rajesh Chakrabarti - Special Invitee
17. Dr. Ajay Batish - Special Invitee

After ascertaining the quorum, the Chairman presided over the meeting.

The Board discussed following items of the Agenda

### **SECTION – I ATTENDANCE**

#### **B 156.1**

#### **TO GRANT LEAVE OF ABSENCE, IF ANY**

The following could not attend the meeting and were granted leave of absence :

18. Ms. Sita Sophie Thapar - Nominee of Trust
19. Dr. S.S. Bhatia – Permanent Invitee

### **SECTION – II PRESENTATIONS**

#### **B 156.2**

# THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed to be University)

## PRESENTATIONS

**1. PRESENTATION BY DIRECTOR, TIET :** Dr. Padmakumar Nair, Director TIET made a presentation on the following during the meeting:

- NIRF Rankings 2023
- Admissions
- NBA Accreditation
- Thapar Law School
- CAPSL
- Outreach
- Academic Calendar 2023-24
- Placement 2023
- Centre of Excellence
- Partnerships
- Alumni
- Infrastructure (under construction)

**2. PRESENTATION BY DIRECTOR, LMTSM :** Dr. Rajesh Chakrabarti, Director, LMTSM made a presentation on various activities (Admissions, placements etc) of LMTSM during the meeting.

The presentations are attached herewith.

## VIEWS OF THE MEMBERS

- The Board examined the NIRF rankings score and made the following observations:
  - The Perception score is considerably lower than that of peer institutions. The Board emphasized the need for significant efforts to enhance this score.
  - The Management Ranking has remained stagnant and the Board advised to make best efforts to improve it.
- In order to boost Ph.D. admissions, the Board recommended to prepare a comprehensive policy and also advised to review the inbreeding policy.
- The Board also emphasized the need for improvement in the placement of the students.

## SECTION – III REPORTING ITEMS

### B 156.3

#### CONFIRMATION OF MINUTES OF PREVIOUS MEETING

The minutes of the 155<sup>th</sup> meeting of the Board of Governors held on March 28, 2023 were confirmed.

### B 156.4

#### ACTION TAKEN REPORT

##### LAUNCH OF SATELLITE

The updated Status is as under :

##### 1. Payload

**testing:** Gas chamber for satellite payload calibration developed

Dr Pillai highlighted the progress made in the satellite and we are close to completing the integration process



# THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed to be University)

at TIET. It is tested to attain the required optical path for payload testing.

## 2. Student ELC

**Activity:** Two short projects under Thaparsat on "Satellite monitoring and data processing" are offered during summer 2023-24, inducting 4 students in each project. Students have shown keen interest in it.

## 3. Proposal

**submission** to ISRO requesting for testing and launch of satellite and letter of intent to Punjab government officials, in progress.

with payload. He complemented the outstanding work of Prof. Gulati and the students in realising the payload.

## Status Update at

### Data Patterns:

1. Camera interface module realised and as standalone testing completed at DP.
2. Payload subsystem assembly and testing in progress expected to completed within couple of weeks.

B 155.1  
TO NOTE THE JOINING  
OF DIRECTOR, TIET  
AND DIRECTOR,  
LMTSM

Noted.

# THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed to be University)

B 155.3

## PRESENTATIONS

- The Board was apprised about the starting of following three new UG programs :
  - Civil Engineering with Computer Applications
  - Electronics Engineering (VLSI Design and Technology)
  - Robotics and Artificial IntelligenceThe Board took a note of the same.

The Board noted the status.
- The Board advised to discuss the proposal of enhancement of credits in the Ph.D. course work in the next meeting of the Senate. The Board desired that a report in this regard to be put up in the next meeting.

It was informed to the Board that the same shall be reported in the next meeting.
- The Board took a note on the starting of scholarship for the LEET students admitted in 2<sup>nd</sup> year of BE/B.Tech.

The Board noted the status.
- The Board was informed about the joint visit of the Institute officials with University of Toledo for student enrolment from Nepal for regular as well as 2+2 Toledo programs. It was also informed to the Board that the similar joint efforts will be planned.

The Board noted the status.

# THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed to be University)

at UAE and Malaysia.

- The Board was apprised that the NCR Office of the Institute will be inaugurated at Golf Course Road, Gurgaon in the month of May, 2023. The Board noted the status.

- The Board was also apprised that the Institute will offer Fee waiver to meritorious students seeking admission to the branches Biomedical Engg, Civil Engineering, Chemical Engg, Electrical Engg, Electronics (Instrumentation & Control) Engineering, Mechanical Engineering, Mechatronics of BE/B.Tech. programs as per following :
  - Students with a PCM score  $\geq 80\%$  will be eligible for a 30% waiver on Tuition Fee.
  - Students with a PCM score  $> 75\%$  but less than 80% will be eligible for 20% waiver on tuition fee.The Board noted the status.

B 155.6  
TO NOTE THE MINUTES  
OF STATUTORY  
BODIES

- (i) Minutes of the 87<sup>th</sup> meeting of the Staff Affairs Committee held on March 22, The Board noted the status.

# THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed to be University)

- 2023.
- (ii) Minutes of the 111<sup>th</sup> meeting of the Finance Committee held on March 14, 2023.
- (iii) Minutes of the 109<sup>th</sup> meeting of Senate held on March 16, 2023.

B 155.7  
TO CONSIDER THE  
RECOMMENDATIONS  
OF 87<sup>TH</sup> MEETING OF  
STAFF AFFAIRS  
COMMITTEE HELD ON  
MARCH 22, 2023

SAC 87.4  
TO CONSIDER THE  
CHANGES IN SERVICE  
REGULATIONS IN  
“PROMOTION AND  
RECRUITMENT  
(TEACHING STAFF)

The Board took a note on the implementation of the same.

SAC 87.5  
TO CONSIDER THE  
CHANGES IN SERVICE  
REGULATIONS  
REGARDING  
CONSTITUTION OF  
SELECTION  
COMMITTEE OF LMTSM  
AND TSLAS

The Board took a note on the implementation of the same.

B 155.8  
TO CONSIDER THE  
RECOMMENDATIONS  
OF 111<sup>th</sup> MEETING OF  
FINANCE COMMITTEE  
HELD ON MARCH 14,  
2023

F 111.4  
BUDGET ESTIMATES

The Board took a note on the implementation of the

# THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed to be University)

FOR THE YEAR 2023-2024

Budget for the year 2023-2024.

F 111.5  
RECOMMENDATIONS  
OF 14<sup>TH</sup> MEETING OF  
FEE FIXATION  
COMMITTEE HELD ON  
FEBRUARY 20, 2023

FFC 14.4  
FEE STRUCTURE OF  
THE INSTITUTE TO BE  
APPLICABLE FOR THE  
SESSION 2023-2024  
AND SUBSEQUENT  
FOUR YEARS

The Board noted the implementation of Fee Structure of the Institute 2023-2024.

FFC 14.5  
REFUND POLICY  
HOSTEL AND MESS  
FEE FOR THE YEAR  
2023-24

The Board noted the implementation of Refund Policy Hostel and Mess Fee for the year 2023-2024.

F 111.6  
REVISION IN DOAM  
(DELEGATION OF  
AUTHORITY MATRIX)

The Board took a note on the implementation of the revised DOAM (Delegation of Authority Matrix).

B 155.9  
RECOMMENDATIONS  
OF 109<sup>TH</sup> MEETING OF  
SENATE HELD ON  
MARCH 16, 2023

S 108.11  
EXTENSION TO PH.D.  
STUDENTS FOR  
SUBMISSION OF  
THESIS

The Board noted the status.

S 109.4  
TO CONSIDER THE  
REQUEST FOR  
EXTENSION TO  
SUBMIT PhD THESIS

The Board noted the status.

S 109.5  
ADMISSIONS FOR THE  
ACADEMIC SESSION

The Board noted the status.

# THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed to be University)

2023-2024

S 109.12

TO CONSIDER THE  
SCHOLARSHIP POLICY  
FOR SESSION 2023-24

The Board noted the  
status.

B 155.10

TO NOTE THE  
CONSTITUTION OF  
BUILDING & WORKS  
COMMITTEE FOR THE  
PERIOD FROM  
1.1.2023 TO  
31.12.2025

Noted.

# THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed to be University)

B 155.11  
INCREASE OF  
HONORARIUM OF  
EXTERNAL EXPERTS OF  
VARIOUS STATUTORY  
BODIES

The Board noted the  
status.

B 155.12  
TO NOTE THE  
OPENING OF NEW  
BANK ACCOUNT AND  
CREATION OF FDR  
AMOUNTING TO RS.  
10.00 LACS FOR LAW  
PROGRAMS

The Board noted the  
status.

ANY OTHER ITEM  
The Digital Signatures  
has been procured in  
the name of Registrar,  
Thapar Institute of  
Engineering &  
Technology, Patiala.

The Board noted the  
status.

## **B 156.5**

### **TO NOTE THE MINUTES OF STATUTORY BODIES**

The Board took a note on the following minutes of the various Statutory Bodies of the Institute :

- (i) Minutes of the 88<sup>th</sup> meeting of the Staff Affairs Committee held on June 13, 2023.
- (ii) Minutes of the 112<sup>th</sup> meeting of the Finance Committee held on June 13, 2023.
- (iii) Minutes of the 58<sup>th</sup> meeting of Planning & Monitoring Board held on May 25, 2023.
- (iv) Minutes of the 72<sup>nd</sup> meeting of the Building & Works Committee held on May 25, 2023.

## **(A)**

### **ACADEMIC**

## **B 156.6**

### **TO NOTE THE INFORMATION BROCHURE OF THE INSTITUTE FOR THE ACADEMIC YEAR 2023-2024**

The Board, after deliberations, noted the Information Brochure of the Institute for the year 2023-2024.

# THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed to be University)

**(B)**

## **MISCELLANEOUS**

### **B 156.7**

#### **TO NOTE THE RESIGNATION OF MR. RAHUL SARIN AND MR. ANIL CHAUDHRY AS MEMBER OF THE BOARD OF GOVERNORS**

The Board, after deliberations, noted the resignation Mr. Rahul Sarin and Mr. Anil Chaudhry from the membership of Board of Governors.

### **B 156.8**

#### **TO NOTE THE CREATION OF NEW POSITIONS OF DEANS**

The Board noted the creation of the following new positions of the Deans:

- Dean of Outreach
- Dean of Sustainability
- Dean of Digital Content Transformation

The Board was also informed that the Associate Dean positions have been created to provide support for each of the aforementioned Deans.

### **B 156.9**

#### **TO NOTE THE SIGNING OF MOU WITH ALUMNI OF 1966-70 BATCH FOR INSTITUTION OF NEW SCHOLARSHIPS**

The Board, after deliberations, noted the signing of MoU with Alumni of 1966-70 batch for Institution of new scholarships.

### **B 156.10**

#### **TO NOTE THE APPROVAL ACCORDED BY CHAIRMAN ON BEHALF OF THE BOARD OF GOVERNORS FOR PURCHASE OF TWO NEW VEHICLES**

The Board noted the approval accorded by Chairman on behalf of Board of Governors for the purchase of two new vehicles (one for Patiala Campus and one for Derabassi Campus). There being no other business, the meeting concluded with a vote of thanks to the Chair.

SECRETARY  
BOARD OF GOVERNORS



# THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed to be University)

## MINUTES OF THE 110<sup>th</sup> MEETING OF THE SENATE HELD ON JULY 04, 2023 AT 11:00 AM.

The meeting was held online. The attendance is attached herewith.

After ascertaining the quorum which was present, the Chairman presided over the meeting.

The Senate discussed the following items of the agenda:

### S 110.1

#### TO GRANT LEAVE OF ABSENCE, IF ANY

The leave of absence may be granted to the members who are unable to attend the meeting. The members of Senate are as under:

1. Dr. R.S. Kaler
2. Dr. Neeraj Kumar
3. Dr. S.S. Bhatia
4. Dr. (Mrs) Gurvinder Kaur
5. Dr. Kulvir Singh
6. Dr. S.K. Mohapatra
7. Dr. O.P. Pandey
8. Dr. Sanjai Saxena
9. Dr. Nirranjan Das
10. Dr. Haripada Bhunia
11. Dr. Manoj Kumar Sharma
12. Dr. Neeraj Kumar
13. Dr. Prateek Kumar
14. Dr. Shruti Sharma
15. Dr. Rajiv Sarin
16. Dr. Sunil Kumar Singla
17. Dr. Dheeraj Gupta
18. Dr. Soumen Basu
19. Dr. Karminder Ghuman
20. Dr. Niladri Chatterjee
21. Prof. Manoranjan Parida

### S 110.2

#### CONFIRMATION OF MINUTES

The minutes of 109<sup>th</sup> meeting of the Senate held on March 16, 2023 were confirmed.

# THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed to be University)

## S 110.3

### ACTION TAKEN REPORT

ANY OTHER POINT  
DISCUSSED DURING THE  
MEETING

The Chairman Senate desired the opinion of Senate members to the proposal of naming the "Schools" as "Department" and requested to come up with their valuable suggestions in this regard in the next meeting.

The Senate recommended that the following Schools be renamed as Departments:

| Existing Name                          | New Name                                   |
|----------------------------------------|--------------------------------------------|
| School of Physics & Material Science   | Department of Physics & Material Science   |
| School of Chemistry & Biochemistry     | Department of Chemistry & Biochemistry     |
| School of Energy and Environment       | Department of Energy and Environment       |
| School of Humanities & Social Sciences | Department of Humanities & Social Sciences |
| School of Mathematics                  | Department of Mathematics                  |

Other action taken noted by the Senate.

## S 110.4

### TO DISCUSS THE PROPOSAL OF ENHANCEMENT OF CREDITS IN THE Ph.D. COURSE WORK

The Senate, recommended that to strengthen the understanding of concepts, PhD candidates is recommended to take upto 36 credits of course work during his/her entire tenure of PhD. However, as per UGC regulations, he/she should be allowed to submit the research proposal after successful completion of 12-16 credits of course work that includes Research Methodology (4.0 Cr), Seminar (4.0 Cr), and Research & Publication ethics (2.0 Cr).

## S 110.5

### ADMISSIONS FOR THE ACADEMIC SESSION 2023-2024

The Senate, noted the details of admissions for the session 2023-24. The Senate recommended that the eligibility criteria for admission through 10+2 PCM mode for the new programmes will be same as for other branches offered by the same

# THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed to be University)

department. Details are as under.

1. For programmes Civil Engg. With Computer application, and Robotics & Artificial Intelligence

*The candidate has appeared in JEE Main – 2023 (or in TIET entrance test) and has passed 10+2 or equivalent examination in 2021, 2022 or 2023, with at least 60% marks (55% for SC/ST candidates) in aggregate of three subjects, namely, Physics, Mathematics and any one subject out of Chemistry, Biology, Biotechnology and Technical Vocational subject\*.*

2. For programme Electronics Engg. (VLSI Design and Technology)

*The candidate has appeared in JEE Main – 2023 and has passed 10+2 or equivalent examination in 2021, 2022 or 2023, with at least 70% marks (65% for SC/ST candidates) in aggregate of three subjects, namely, Physics, Mathematics and any one subject out of Chemistry, Biology, Biotechnology and Technical Vocational subject\*.*

Further, the senate asked the detailed report on admissions to be presented in the next meeting.

## **S 110.6**

### **TO REPORT ABOUT THE PARTICULARS OF THE STUDENTS WHO HAVE SECURED CGPA OF 10 ON 10 POINT SCALE AT THE END OF SECOND SEMESTER OF SESSION 2022-2023**

The Senate noted and congratulated the students who have secured CGPA of 10 on 10 point scale at the end of Second Semester of session 2022-2023.

## **S 110.7**

### **TO NOTE THE APPROVALS ACCORDED BY CHAIRMAN, SENATE**

The Senate took a note on the approvals accorded by the Chairman Senate on behalf of the Senate.

## **S 110.8**

### **TO REPORT ABOUT AWARD OF PhD DEGREES**

The Senate noted the detail of students who have successfully completed the Ph.D. program for the award of Ph.D. degrees.

## **S 110.9**

### **TO DISCUSS AND CONSIDER THE RECOMMENDATIONS OF 7<sup>TH</sup> MEETING OF SRC HELD ON JUNE 13, 2023**

#### **A) TO CONSIDER THE FREQUENCY OF FINANCIAL SUPPORT GIVEN TO THE PhD STUDENTS UNDER RF-25**

The Senate, after deliberations, recommended that the frequency of financial support to PhD students for conference registration fee under RF-25 should be increased from

# THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed to be University)

once in the PhD duration to once in the financial year which is at par with the faculty members. Further the senate recommended that this financial support should be given for participating in the reputed conferences only. Every department/school should submit the list of such conferences to the DoRDC office. Participation in any other conference not in the list, should be approved by the DoRDC on the recommendations of the Doctoral Committee of the student. Also this financial support is recommended to be actual registration fee instead of Rs. 35000/- lump-sum. DoRDC is required to prepare the budgetary proposal for this and the same will be put up in the next meeting of the finance committee.

## **B) TO ALLOW PhD STUDENTS TO SUBMIT THEIR THESIS IN SOFT FORM ONLY**

The Senate recommended the proposal of submission of PhD thesis for evaluation purpose in soft form instead of hard copies to minimize the wastage of paper. Further the Senate advised DoRDC to consult with Head, CITM to ensure privacy of the research work so that it cannot be copied.

## **C) TO NOTE THE APPROVAL ACCORDED BY CHAIRMAN, SENATE TO ALLOW SUBMISSION OF PhD THESIS WHILE THE STUDENT IS WAITING FOR PAPER PUBLICATION**

The Senate, after detailed discussions recommended that PhD thesis submission should be allowed and sent for evaluation if the PhD work is completed and the student is waiting for the paper publication. However, the evaluation reports should be opened only after publication of the required number of research papers. No fee will be charged once the thesis is submitted and the Teaching Associateship will be stopped immediately on submission of the thesis. Further the Senate recommended that this policy should be reviewed after two years.

### **S 110.10**

## **TO CONSIDER THE ACADEMIC/EXAMINATION REFORMS**

The Senate, after deliberations, recommended the following reforms.

1. As the evaluation process has been made more rigorous, it is proposed that the minimum passing grade should be 'C' instead of existing 'C-'. This will be applicable for the existing as well as newly admitted students w.e.f. the next semester i.e. odd semester of 2023-24. For the existing students, this shall be applicable for the remaining period of their study.
2. Tutors should be assigned to students having difficulties in academics or having the backlogs. DoAA is advised to formulate a policy regarding the same.
3. EST exam should be of 2 hrs instead of 3 hrs. Syllabus covered from session start till MST will be evaluated in MST and syllabus covered from MST to EST will be evaluated in EST. However, TSLAS can follow the different plan of evaluations.
4. Students should be allowed to improve their grades if they have scored any grade less than 'A-' i.e. if the student has scored C-/C/B-/B grade in a subject provided
  - a. The maximum grade after the improvement can be A-.

# THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed to be University)

- b. For Scholarship/Academic prize distribution/Gold medalist (Convocation), only the first attempt earned grade will be considered.
- c. DoAA is authorized to decide on the number of subjects to be offered for improvement. If required, subjects can be offered in self-study mode provided the student has earned a pass grade already and has applied for improvement only.
5. Examination and the related activities (datesheet, seating plan, invigilation duties, UMCs, etc) of Thapar School of Liberal Arts and Sciences (TSLAS) will be conducted centrally by TIET.

The Senate further suggested DoAA to bring the following in the next meeting of senate

1. Criteria/Policy to decide the A+ grade.
2. Minimum passing marks should not be fixed to 35 but it should be based on the factors like maximum/average marks scored in a subject.

## **S 110.11**

### **TO CONSIDER THE SCHEME OF ME/MTECH PROGRAMME TO BE OFFERED IN FLEXI TIMINGS MODE**

The Senate recommended to start the ME/MTech programme in flexi timings mode as per the following

1. Number of credits will be same as offered in the regular programme.
2. Duration of the programme will be 5-6 semesters.
3. Department/School will conduct the classes in the evening hours or during the weekends as suited to all the stakeholders i.e. faculty, students etc. Regular courses will be adjusted accordingly.
4. No additional faculty should be recruited specially for these programmes.
5. These students can go for one-year internship at the same place where they are working. However, student must complete his 2-year course work, if he/she wants to go for the industry internship. The total duration in this case will be of 3 years (6 semesters).
6. If the student wishes to do the research work at TIET, he/she can start the thesis work w.e.f. 3<sup>rd</sup> semester. The total duration in this case can be 2.5 years (5 semesters).
7. Total intake (regular + flexi timings) should not exceed the sanctioned intake.

Further, the Senate also recommended the following

1. MSc programmes can also be offered in the flexi timings mode.
2. Since PhD students study the same courses offered to PG courses, hence PhD course work can also be offered in the flexi timings mode.

All the heads are advised to get the scheme and structure finalized for these programmes and get it approved so that these can be offered w.e.f. session 2023-24

# THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed to be University)

starting 31<sup>st</sup> July, 2023.

## **S 110.12**

### **TO INCORPORATE THE SPECIALIZATION IN THE DEGREE CERTIFICATE OF MA PSYCHOLOGY STUDENTS**

The Senate approved to incorporate the specialization in the degree certificate of MA Psychology programme.

## **S 110.13**

### **TO CONSIDER START OF ONE YEAR POSTGRADUATE (MA/MSc) PROGRAMME FOR STUDENTS COMPLETING FOUR YEAR BACHELORS (BA/BSc) PROGRAMME**

The Senate after deliberations, recommended that as per provisions in NEP – 2020, TIET will start offering the one year postgraduate (MA/MSc) programme for students completing four year Bachelors (BA/BSc) programme. All the heads of MA/MSc programmes are advised to get the scheme and structure finalized and get it approved so that these can be offered w.e.f. session 2023-24 starting 31<sup>st</sup> July, 2023.

## **S 110.14**

### **TO DISCUSS THE FORMAT OF GRADE CARD/DEGREE CERTIFICATE TO BE AWARDED TO UG STUDENTS OF SCHOOL OF LIBERAL ARTS AND SCIENCES**

The Senate after discussions proposed the following changes in the formats.

1. In the degree certificate, Minor subject/area should also be mentioned along with Major subject/area.
2. Duration of the Hons. Degree should also be mentioned.
3. Instead of mentioning the First Major and Second Major, Double Major should be mentioned. e.g. "*Degree of Bachelor of Science with Biotechnology as first major and Psychology as second major*" should be written as "*Degree of Bachelor of Science with double major in Biotechnology and Psychology*".

# THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed to be University)

## **ANY OTHER POINT DISCUSSED DURING THE MEETING**

**S 110.15**

## **TO APPROVE THE COURSE SYLLABUS OF UHU003 – PROFESSIONAL COMMUNICATION**

The senate approved the revised syllabus as per the recommendations of SPPC and BoS of School of Humanity and Social Sciences.

The meeting ended with a vote of thanks to the Chair.

Dr. Gurbinder Singh  
**Secretary, Senate**

Dr. Padmakumar Nair  
**Chairman, Senate**

# THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed to be University)

## MINUTES OF THE 111<sup>th</sup> MEETING OF THE FINANCE COMMITTEE HELD ON JUNE 13, 2023 AT 12.00 NOON.

The meeting was held online through Zoom Platform. The following members were attended the meeting:

- |                             |                           |
|-----------------------------|---------------------------|
| 1. Shri R.R. Vederah        | - Chairman                |
| 2. Shri J.S. Neerav         | - Nominee of President    |
| 3. Shri Apoorva Sharma      | - Nominee of Board        |
| 4. Shri R. Rajagopal        | - Nominee of Board        |
| 5. Dr. Padmakumar Nair      | - Director, TIET          |
| 6. Shri Darshan Singh Sidhu | - Nominee of Punjab Govt. |
| 7. Dr. Rajesh Chakrabarti   | - Special Invitee         |
| 8. Dr. Ajay Batish          | - Special Invitee         |
| 9. Dr. Gurbinder Singh      | - Permanent Invitee       |
| 10. CA Pankaj Sinha         | - Secretary               |

After ascertaining the quorum, which was present, the Chairman presided over the meeting. The Finance Committee discussed following items of the agenda:

### F 112.1

#### TO GRANT LEAVE OF ABSENCE, IF ANY

All the members were attended the meeting.

### F 112.2

#### TO CONFIRM THE MINUTES OF THE PREVIOUS MEETING

The minutes of the 111<sup>th</sup> meeting of the Finance Committee held on March 16, 2023 were confirmed.

### F 112.3

#### ACTION TAKEN REPORT

TDS receivable from Government  
Minutes 111<sup>th</sup> meeting :  
A letter has been drafted to the Deputy Commissioner IT to revise the initial Assessment order based on appeal order.

The TDS refund order for the Assessment Year 2018-19 amounting to Rs. 1.9 crore is received. The remaining amount of Rs. 1.2 crore (approximately) is expected to be received within six months once the appeal is settled with ITAT.

However, a letter has also been addressed to the CIT-Chandigarh for giving proper effect of the Appeal so that the matter could be resolved within the office of the CIT-Chandigarh without referring to ITAT.



# THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed to be University)

F 102.5  
ANY OTHER ITEM  
WITH THE  
PERMISSION OF THE  
CHAIR

Minutes 110<sup>th</sup> meeting :  
FCRA Registration  
The FCRA Registration  
is prepared on the basis  
of revised list of  
Members.

The Finance Committee  
noted the progress  
made regarding the  
FCRA registration.

F 111.4  
TO CONSIDER THE  
BUDGET ESTIMATES  
FOR THE YEAR 2023-  
2024

The FC took a note on  
the same.

F 111.5  
TO CONSIDER THE  
RECOMMENDATIONS  
OF 14<sup>TH</sup> MEETING OF  
FEE FIXATION  
COMMITTEE HELD ON  
FEBRUARY 20, 2023

FFC 14.4  
TO CONSIDER  
THE FEE  
STRUCTURE OF  
THE INSTITUTE  
TO BE  
APPLICABLE  
FOR THE  
SESSION 2023-  
2024 AND  
SUBSEQUENT  
FOUR YEARS

The FC took a note on  
the same.

FFC 14.5  
REFUND  
POLICY HOSTEL  
AND MESS FEE  
FOR THE YEAR  
2023-24

The FC took a note on  
the same.

F 111.6  
REVISION IN DOAM  
(DELEGATION OF  
AUTHORITY MATRIX)

The FC took a note on  
the same.

F 111.7  
PRESENTATION BY  
MR. APOORVA

# THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed to be University)

SHARMA

Noted.

Mr. Apoorva Sharma presented the Internal Audit Report and discussed the activities happened during the last quarter specially to clean up the student fee.

F 111.8

Noted.

ANY OTHER ITEM WITH THE PERMISSION OF THE CHAIR

# THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed to be University)

## **F 112.4**

### **PRESENTATION BY THE INTERNAL AUDITOR**

Mr. Apoorva Sharma presented the Internal Audit Report and discussed the activities happened during the last quarter and emphasized the following:

- 1) To clean up the Fee dues shown in the SFM Module before being transferred to the new ERP.
- 2) To follow up for collection of balance fee dues pertaining to last year.

A copy of the presentation is attached herewith.

## **F 112.5**

### **ANY OTHER ITEM WITH THE PERMISSION OF THE CHAIR**

No other item was discussed during the meeting.

There being no other business, the meeting concluded with a vote of thanks to the Chair.

SECRETARY

FINANCE COMMITTEE

**MINUTES OF THE 58<sup>TH</sup> MEETING OF PLANNING & MONITORING BOARD HELD ON MAY 25, 2023 AT 10.30 AM.**

The meeting was held online through Zoom Platform and the attendance sheet is attached herewith.

- Dr. Bhupendra Chudasama attended the meeting on behalf of Dr. N. Tejo Parkash, Dean of Research & Development Cell.
- Dr. J.P. Kushwaha, attended the meeting on behalf of Dr. Rajeev Mehta, Head, CHED.

After ascertaining the quorum which was present, the Chairman presided over the meeting.

The PMB discussed following items of the Agenda:

**P 58.1  
TO GRANT LEAVE OF ABSENCE, IF ANY**

The following could not attend the meeting and were granted leave of absence:

- |                             |                                        |
|-----------------------------|----------------------------------------|
| 1. Dr. Neeraj Kumar         | - Dean, Digital Content Transformation |
| 2. Dr. Satnam Singh         | - Head, SCBC                           |
| 3. Dr. Santha Kumari        | - Head, SLAS                           |
| 4. Mr. Rakesh Kad           | - Nominee of CBOG                      |
| 5. Mr. Mohinder Kumar Gupta | - Nominee of CBOG                      |
| 6. Mr. N.P. Singh           | - Nominee of Director                  |
| 7. Dr. Gurbinder Singh      | - Non-member Secretary                 |

**P 58.2**

**TO CONFIRM THE MINUTES OF THE PREVIOUS MEETING**

The minutes of the 56<sup>th</sup> meeting of the Planning & Monitoring Board held on October 20, 2022 were confirmed.

**P 58.3**

**ACTION TAKEN REPORT**

The PMB, after deliberations, noted the action taken report.

**P 58.4**

**PRESENTATION BY DEANS AND HEAD, CILP**

The following gave presentations during the meeting :

1. Dr. Bhupendrakumar Chudasama Associate Dean, Research & Development Cell
2. Dr. R.S. Kaler, Dean of Faculty Affairs
3. Dr. Seema Bawa, Dean, Outreach
4. Mr. H.S. Bawa, Head, CILP

Copies of presentations are attached herewith.

The Chairman, PMB, expressed a desire for future meetings to limit presentations to just two slides. The focus of these slides should be on highlighting key information.

**P 58.5**

**PROPOSAL OF SCHOOL OF MATHEMATICS REGARDING UPGRADATION / SETTING UP OF LABORATORIES**

The Head of SOM briefed the PMB regarding the immediate requirement of 37 computers in the UG and FIST lab of the School. After deliberations, the PMB instructed the Head of CSED to transfer 37 computers to SOM once the purchase process for new computers for the Computer Science & Engineering Department is complete.

**P 58.6**

**DEVELOPMENT OF LABORATORIES FROM NOVEMBER, 2022 TO MAY , 2023**

The PMB, after deliberations, noted the development of laboratories from November, 2022 to May, 2023.

**SUGGESTIONS OF PROF. S.K. KAUSHIK, EXTERNAL MEMBER :**

1. Online meetings deny the external members the opportunity to physically see the progress made in the development of various laboratories during the specific period of reference.

# **THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY**

(Deemed-to-be-University u/s 3 of UGC Act, 1956)

---

2. The online meetings deny the external members the chance to interact with the various faculty members of the concerned department corresponding to their specialisation.
3. The cost involved in the participation of the external members in the PMB and BWC Meetings is miniscule compared to the benefits which would accrue to the Institute by their interactions with the faculty and Students.
4. Circulation of the hard copy Agenda papers, as earlier, gives the external members a chance to critically study the progress and development of the Institute, rather than making off the cuff remarks in the online meetings.
5. The DEAN R & D should carefully look into the poor receipt of research projects( about 16% ) submitted to various funding agencies and the reasons for the same.

There being no other business, the meeting concluded with a vote of thanks to the Chair.

SECRETARY  
PLANNING & MONITORING BOARD

---

## **Annexure 10.1.5**

### **SERVICE REGULATIONS**

**Details of the services regulation will be found in the following link**

<https://www.thapar.edu/upload/files/TIETService%20Regulations.p>

**Details of the Travel Policy will be found in the following link**

[https://www.thapar.edu/upload/files/Travel%20Policy.pdf?\\_ga=2.216815317.275112729.1649673924-1565693388.1637737995](https://www.thapar.edu/upload/files/Travel%20Policy.pdf?_ga=2.216815317.275112729.1649673924-1565693388.1637737995)

**Details of the Leave Policy will be found in the following link**

[https://www.thapar.edu/upload/files/Leave%20Policy.pdf?\\_ga=2.250207941.275112729.1649673924-1565693388.1637737995](https://www.thapar.edu/upload/files/Leave%20Policy.pdf?_ga=2.250207941.275112729.1649673924-1565693388.1637737995)

---

**Annexure 10.1.6**

**Students Consultative Committee**



---

## OFFICE OF THE DEAN OF STUDENT AFFAIRS

No. TI/DS/SCC/71.25/

Dated: Nov'3, 2022

### NOTICE

The following is the constitution of the Student Consultative Committee (SCC) for the year 2022-2023.

#### FACULTY/STAFF REPRESENTATIVES:

|                                                          |                 |
|----------------------------------------------------------|-----------------|
| 1. DR. INDERVEER CHANA, DEAN, STUDENT AFFAIRS            | CHAIRMAN        |
| 2. DR. MANINDER SINGH, DEAN ACADEMIC AFFAIRS&HCITM       | MEMBER          |
| 3. DR. S.S. BHATIA, COE                                  | MEMBER          |
| 4. DR. M. S REDDY, HBTD                                  | MEMBER          |
| 5. DR. PREM PAL BANSAL, HCED                             | MEMBER          |
| 6. DR. RAJEEV MEHTA, HCHED                               | MEMBER          |
| 7. DR. SHALNI BATRA, HCSED                               | MEMBER          |
| 8. DR. ALPANA AGGARWAL, HECED                            | MEMBER          |
| 9. DR. R.S. KALER, HEIED                                 | MEMBER          |
| 10. DR. TARUN KUMAR BERA, HMED                           | MEMBER          |
| 11. DR. SATNAM SINGH, HSCBC                              | MEMBER          |
| 12. DR. MAHESH KUMAR SHARMA, HSOM & HHC                  | MEMBER          |
| 13. DR.GURVINDER KAUR, HSHSS                             | MEMBER          |
| 14. DR. KULVIR SINGH, HSPMS                              | MEMBER          |
| 15. DR. ANOOP VERMA, HSEE                                | MEMBER          |
| 16. DR. SEEMA BAWA, PROFESSOR INCHARGE, CENTRAL LIBRARY  | MEMBER          |
| 17. DR. ANIL KUMAR,COORDINATOR, CORE                     | MEMBER          |
| 18. MR. H.S. BAWA, IC, CILP                              | MEMBER          |
| 19. DR. ANKUSH PATHANIA, ASSOCIATE DEAN (ADOSA)          | MEMBER          |
| 20. DR. ASHISH PUROHIT, COORDINATING WARDEN              | MEMBER          |
| 21. DR RAHUL UPADHYAY , WARDEN, HOSTEL-A                 | MEMBER          |
| 22. DR. MOHIT AGARWAL, WARDEN, HOSTEL-B                  | MEMBER          |
| 23. DR. BHARAT GARG, ASSISTANT WARDEN HOSTEL-B           | MEMBER          |
| 24. DR. HARI SHANKAR SINGH, WARDEN, HOSTEL-C             | MEMBER          |
| 25. DR. MADHUP KUMAR MITTAL, WARDEN- HOSTEL-H            | MEMBER          |
| 26. DR. NEERAJ KUMAR, WARDEN HOSTEL-K                    | MEMBER          |
| 27. DR. RAJINDER KUMAR, WARDEN HOSTEL-L                  | MEMBER          |
| 28. DR. NEERAJ KUMAR GROVER, WARDEN HOSTEL- M            | MEMBER          |
| 29. DR. PARMOD KUMAR VAISHNAV, ASSISTANT WARDEN HOSTEL-M | MEMBER          |
| 30. DR. ANJU BALA, WARDEN, GIRLS HOSTEL-Q                | MEMBER          |
| 31. DR. PARIMITA ROY, ASSISTANT WARDEN HOSTEL Q          | MEMBER          |
| 32. DR. RINKLE RANI, WARDEN, GIRLS HOSTEL-PG             | MEMBER          |
| 33. DR. M. VASUNDHRA, WARDEN, GIRLS HOSTEL-E             | MEMBER          |
| 34. DR. DEEPSHIKHA TIWARI, WARDEN, GIRLS HOSTEL-G        | MEMBER          |
| 35. DR. GAGANDEEP KAUR,WARDEN GIRLS HOSTEL-N             | MEMBER          |
| 36. DR. ANIL ARORA, WARDEN HOSTEL-O                      | MEMBER          |
| 37. DR. NEETU SINGH, WARDEN HOSTEL-I                     | MEMBER          |
| 38. DR. MUNISH KANSAL, WARDEN HOSTEL-J                   | MEMBER          |
| 39. DR. SANDEEP PANDEY, ASSISTANT WARDEN HOSTEL-J        | MEMBER          |
| 40. DR. GURBINDER SINGH, REGISTRAR                       | SPECIAL INVITEE |
| 41. MR. CHANDAN KUMAR, CMS                               | SPECIAL INVITEE |

42. DR. SONAM DULLAT, STUDENT COUNSELLOR  
 43. MR. LAKHBIR SINGH, ADS  
 44. MR. SANDEEP KUMAR RAWAT, AO (HOSTELS)  
 45. MR. PANKAJ SINHA, FINANCE OFFICER

SPECIAL INVITEE  
 SPECIAL INVITEE  
 SPECIAL INVITEE  
 SPECIAL INVITEE

**STUDENT REPRESENTATIVES**

| S. No.                              | Name                 | Roll No.  | Batch      | Email ID                                                                 |
|-------------------------------------|----------------------|-----------|------------|--------------------------------------------------------------------------|
| <b>CHEMICAL ENGINEERING</b>         |                      |           |            |                                                                          |
| 1                                   | Suhani Jain          | -         | B.E. 1st Y | Suhanijain710@gmail.com                                                  |
| 2                                   | Shubhashish Sharma   | 102101028 | BE 2nd Y   | <a href="mailto:ssharma20_be21@thapar.edu">ssharma20_be21@thapar.edu</a> |
| 3                                   | Mridul Makkar        | 102001030 | BE 3rd Y   | <a href="mailto:mmakkar_be20@thapar.edu">mmakkar_be20@thapar.edu</a>     |
| 4                                   | Varnika Singh        | 102001003 | -do-       | <a href="mailto:vsingh4_be20@thapar.edu">vsingh4_be20@thapar.edu</a>     |
| 5                                   | Bhavya Narang        | 101901008 | BE 4thY    | Bnarang_be19@thapar.edu                                                  |
| 6                                   | Vasudha Kauras       | 101901041 | -do-       | <a href="mailto:Vkaura_be19@thapar.edu">Vkaura_be19@thapar.edu</a>       |
| <b>CIVIL ENGINEERING DEPARTMENT</b> |                      |           |            |                                                                          |
| 7                                   | LAVISH BISHNOI       | 102202016 | BE1st      | lbishnoi_be22@thapar.edu                                                 |
| 8                                   | ARNAV JOLLY          | 102202037 | -do-       | <a href="mailto:ajolly_be22@thapar.edu">ajolly_be22@thapar.edu</a>       |
| 9                                   | SHAIBYA SINGH        | 102202012 | -do-       | <a href="mailto:ssingh_be22@thapar.edu">ssingh_be22@thapar.edu</a>       |
| 10                                  | Pradeep Singhal      | 102102087 | BE 2nd Y   | <a href="mailto:ppradeep_be21@thapar.edu">ppradeep_be21@thapar.edu</a>   |
| 11                                  | Rhythm Garg          | 102102054 | -do-       | <a href="mailto:rgarg3_be21@thapar.edu">rgarg3_be21@thapar.edu</a>       |
| 12                                  | Kakshit Verma        | 102102068 | -do-       | <a href="mailto:kverma2_be21@thapar.edu">kverma2_be21@thapar.edu</a>     |
| 13                                  | Arman Singh Shinh    | 102002012 | BE 3rdY    | <a href="mailto:ashinh_be20@thapar.edu">ashinh_be20@thapar.edu</a>       |
| 14                                  | Karanbir Singh Walia | 102002071 | -do-       | <a href="mailto:kwalia_be20@thapar.edu">kwalia_be20@thapar.edu</a>       |
| 15                                  | Kumkum Suri          | 102002016 | -do-       | <a href="mailto:ksuri_be20@thapar.edu">ksuri_be20@thapar.edu</a>         |
| 16                                  | Ashwin Pandohi       | 101902051 | BE 4thY    | <a href="mailto:apandohi_be19@thapar.edu">apandohi_be19@thapar.edu</a>   |
| 17                                  | Mehak Sharma         | 101902123 | -do-       | <a href="mailto:msharma2_be19@thapar.edu">msharma2_be19@thapar.edu</a>   |
| 18                                  | Yogesh Kumar         | 101902113 | -do-       | <a href="mailto:ykumar_be19@thapar.edu">ykumar_be19@thapar.edu</a>       |

| <b>BIOTECHNOLOGY</b>                               |                     |           |                    |                                   |
|----------------------------------------------------|---------------------|-----------|--------------------|-----------------------------------|
| 19                                                 | Sarthak Jindal      | 702200019 | BE 1stY            | sjindal_btech22@thapar.edu        |
| 20                                                 | Kanika Vinayak      | 702200011 | -do                | kvinayak_btech22@thapar.edu       |
| 21                                                 | Hardik              | 702100040 | BE 2ndY            | <u>Hsehgal_btech21@thapar.edu</u> |
| 22                                                 | Muskan              | 702100031 | -do-               | <u>Mmuskan_btech21@thapar.edu</u> |
| 23                                                 | Simone Kahlon       | 702000013 | BE 3rd Y           | Simonekahlon162@gmail.com         |
| 24                                                 | Raghav Puri         | 702000015 | -do-               | <u>rpuri_btech20@thapar.edu</u>   |
| 25                                                 | Jasmeen Kaur        | 701900015 | BE 4th Y           | <u>Jkaur_btech19@thapar.edu</u>   |
| 26                                                 | Vedant              | 701900009 | -do-               | <u>vsehgal_btech19@thapar.edu</u> |
| <b>ELECTRONICS &amp; COMMUNICATION ENGINEERING</b> |                     |           |                    |                                   |
| 27                                                 | Vanika Sahni        | 102206254 | <b>BE 1stYECE</b>  | vsahni_be22@thapar.edu            |
| 28                                                 | Chahat Garg         |           | <b>-do-</b>        |                                   |
| 29                                                 | Arushi Kadyan       | 102206205 | <b>-do-</b>        | akadyan_be22@thapar               |
| 30                                                 | Hardik Garg         | 102206161 | <b>-do-</b>        | hgarg_be22@thapar.edu             |
| 31                                                 | Prarthana Samal     | 102215280 | <b>-do-</b>        | psamal_be22@thapar                |
| 32                                                 | Shashank Khandelwal | 102106232 | <b>BE 2nd YECE</b> | skhandelwal_be21@thapar.edu       |
| 33                                                 | Danish Agnihotri    | 102106151 | <b>-do-</b>        | dagnihotri_be21@thapar.edu        |
| 34                                                 | Jasdeep Singh       | 102106078 | <b>-do-</b>        | jsingh12_be21@thapar.edu          |
| 35                                                 | Rhythm Ahuja        | 102106216 | <b>-do-</b>        | rahuja_btech21@thapar.edu         |
| 36                                                 | Sanya Gupta         | 102106196 | <b>-do-</b>        | sgupta12_be21@thapar.edu          |
| 37                                                 | Ananya Goel         | 102106137 | <b>-do-</b>        | agoel9_be21@thapar.edu            |
| 38                                                 | Oshotav Kaushal     | 102006072 | <b>BE 3rd YECE</b> | okaushal_be20@thapar.edu          |
| 39                                                 | Chirag Kaura        | 102006037 | <b>-do-</b>        | ckaura_be20@thapar.edu            |
| 40                                                 | Aarzo Singla        | 102186009 | <b>-do-</b>        | asingla6_be20@thapar.edu          |

|    |                       |           |                    |                           |
|----|-----------------------|-----------|--------------------|---------------------------|
| 41 | Isha Jhawar           | 102056010 | -do-               | ijhawar_be20@thapar.edu   |
| 42 | Harsh Raj             | 102006172 | -do-               | hraj_be20@thapar.edu      |
| 43 | Anisha                | 102006133 | -do-               | aanisha_be20@thapar.edu   |
| 44 | Harshit Rana          | 101906167 | <b>BE 4th YECE</b> | hrana_be19@thapar.edu     |
| 45 | Akash deep Singh      | 101906011 | -do-               | asingh21_be19@thapar.edu  |
| 46 | Nishtha Phour         | 101906012 | -do-               | nphour_be19@thapar.edu    |
| 47 | Vatsal Soni           | 101906183 | -do-               | vsoni_be19@thapar.edu     |
| 48 | Hemant Verma          | 101906118 | -do-               | hverma_be19@thapar.edu    |
| 49 | Jaspreet Singh        |           | <b>BE 1stYENC</b>  |                           |
| 50 | Garima Singh          |           | -do-               |                           |
| 51 | Palak Mittal          | 102215138 | -do-               | pmittal1_be22@thapar.edu  |
| 53 | Saanvi Mangla         | 102215155 | -do-               | smangla1_be22@thapar      |
| 54 | Devraj Singh Malhotra | 102216075 | -do-               | dmalhotra_be22@thapar.edu |
| 55 | Ishita Seth           | 102115263 | <b>BE 2ndYENC</b>  | iseth_be21@thapar.edu     |
| 56 | Lakshay Gupta         | 102115175 | -do-               | lgupta1_be21@thapar.edu   |
| 57 | Lavina Jindal         | 102115043 | -do-               | ljindal1_be21@thapar.edu  |
| 58 | Tarandeep Singh       | 102115038 | -do-               | daggarwal_be21@thapar.edu |
| 59 | Kunwar Harnoor Singh  | 102145001 | -do-               | ksingh3_be21@thapar.edu   |
| 60 | Darpan Aggarwal       | 102115042 | -do-               | daggarwal_be21@thapar.edu |
| 61 | Saru                  | 102015069 | <b>BE 3rd YENC</b> | smangla_be20@thapar.edu   |
| 62 | Nitin Menon           | 102015131 | -do-               | nmenon_be20@thapar.edu    |
| 63 | Rudransh Arora        | 102015126 | -do-               | rarora1_be20@thapar.edu   |
| 64 | Bhavya Jotwani        | 102195006 | -do-               | bjotwani_be20@thapar.edu  |
| 65 | Amit Kumar Singh      | 102015145 | -do-               | achauhan1_be20@thapar.edu |

|                                           |                      |           |                    |                            |
|-------------------------------------------|----------------------|-----------|--------------------|----------------------------|
| 66                                        | Kartik Sehrawat      | 101915218 | <b>BE 4th YENC</b> | ksehrawat_be19@thapar.edu  |
| 67                                        | Puja Gupta           | 101915217 | <b>-do-</b>        | pgupta4_be19@thapar.edu    |
| 68                                        | Nandini Sondhi       | 101915169 | <b>-do-</b>        | nsondhi_be19@thapar.edu    |
| 69                                        | Raghav Sharma        | 101915226 | <b>-do-</b>        | rsharma6_be19@thapar.edu   |
| 70                                        | Deepanshi            | 101915187 | <b>-do-</b>        | ddeepanshi_be19@thapar.edu |
| <b>COMPUTER SCIENCE &amp; ENGINEERING</b> |                      |           |                    |                            |
| 71                                        | Sukirti Sharma       | 102103039 | <b>COE 2ND Y</b>   | ssharma5_be21@thapar.edu   |
| 72                                        | Yessica Tuteja       | 102103080 | <b>-do-</b>        | ytuteja_be21@thapar.edu    |
| 73                                        | Abhinandan Sharma    | 102103110 | <b>-do-</b>        | asharma_be21@thapar.edu    |
| 74                                        | Alok Shree Koirala   | 102103157 | <b>-do-</b>        | akoirala_be21@thapar.edu   |
| 75                                        | Gunaayat Kaur        | 102103186 | <b>-do-</b>        | gkaur4_be21@thapar.edu     |
| 76                                        | Kheman Mittal        | 102103217 | <b>-do-</b>        | kmittal1_be21@thapar.edu   |
| 77                                        | Garv Chandalia       | 102103234 | <b>-do-</b>        | gchandalia_be21@thapar.edu |
| 78                                        | Kabir Khanna         | 102103275 | <b>-do-</b>        | kkhanna1_be21@thapar.edu   |
| 79                                        | Moyukh Biswas        | 102103276 | <b>-do-</b>        | mbiswas_be21@thapar.edu    |
| 80                                        | Raghav Mittal        | 102103314 | <b>-do-</b>        | rmittal1_be21@thapar.edu   |
| 81                                        | Anhad Sharma         | 102103368 | <b>-do-</b>        | asharma13_be21@thapar.edu  |
| 82                                        | Deepanshi Sharma     | 102103376 | <b>-do-</b>        | dsharma4_be21@thapar.edu   |
| 83                                        | Shreeya Chatterji    | 102103447 | <b>-do-</b>        | schatterji_be21@thapar.edu |
| 84                                        | Arpit Dubey          | 102103463 | <b>-do-</b>        | adubey_be21@thapar.edu     |
| 85                                        | Vyom Devgan          | 102103473 | <b>-do-</b>        | vdevgan_be21@thapar.edu    |
| 86                                        | Samarjeet Singh      | 102103562 | <b>-do-</b>        | ssingh8_be21@thapar.edu    |
| 87                                        | Akshat Jaimini       | 102103586 | <b>-do-</b>        | ajaimini_be21@thapar.edu   |
| 88                                        | Aryan Shanker Saxena | 102103613 | <b>-do-</b>        | asaxena2_be21@thapar.edu   |

---

|     |                        |           |          |                            |
|-----|------------------------|-----------|----------|----------------------------|
| 89  | Yuvraj Singh Chauhan   | 102103664 | -do-     | ychauhan_be21@thapar.edu   |
| 90  | Arushi Bashambu        | 102103701 | -do-     | abashambu_be21@thapar.edu  |
| 91  | Swapnil Chhabra        | 102103773 | -do-     | schhabra2_be21@thapar.edu  |
| 92  | Prakriti Garg          | 102103806 | -do-     | pgarg_be21@thapar.edu      |
| 93  | Riya Sharma            | 102103832 | -do-     | rsharma3_be21@thapar.edu   |
| 94  | Yash Mittal            | 102103840 | -do-     | ymittal2_be21@thapar.edu   |
| 95  | Saksham Khetarpal      | 102003039 | COE 3rdY | skhetarpal_be20@thapar.edu |
| 96  | Rishabh Gupta          | 102003051 | -do-     | rgupta4_be20@thapar.edu    |
| 97  | Rachit Gupta           | 102003056 | -do-     | rgupta_be20@thapar.edu     |
| 98  | Bharat Dudeja          | 102003118 | -do-     | bdudeja_be20@thapar.edu    |
| 99  | Tushar Singh           | 102003137 | -do-     | tsingh_be20@thapar.edu     |
| 100 | Prateek Mittal         | 102003200 | -do-     | pmittal_be20@thapar.edu    |
| 101 | Ajitpal Singh Sidhu    | 102003219 | -do-     | asidhu1_be20@thapar.edu    |
| 102 | Meharamt Singh         | 102003241 | -do-     | msingh10_be20@thapar.edu   |
| 103 | Riya                   | 102003451 | -do-     | rriya_be20@thapar.edu      |
| 104 | Jatin                  | 102003510 | -do-     | jjatin_be20@thapar.edu     |
| 105 | Tanish Kumar Garg      | 102003520 | -do-     | tgarg_be20@thapar.edu      |
| 106 | Sopan Gangrade         | 102003572 | -do-     | sgangrade1_be20@thapar.edu |
| 107 | Sahil Jindal           | 102003608 | -do-     | sjindal1_be20@thapar.edu   |
| 108 | Pulkit                 | 102003619 | -do-     | pgirdhar_be20@thapar.edu   |
| 109 | Siddharth Shanker Garg | 102003630 | -do-     | sgarg3_be20@thapar.edu     |
| 110 | Yatin Goyal            | 102003655 | -do-     | ygoyal1_be20@thapar.edu    |
| 111 | Sanya Sachdeva         | 102003708 | -do-     | ssachdeva1_be20@thapar.edu |
| 112 | Manmeet Singh          | 102003735 | -do-     | msingh1_be20@thapar.edu    |

|     |                      |           |                 |                            |
|-----|----------------------|-----------|-----------------|----------------------------|
| 113 | Pranav               | 102053019 | -do-            | ppranav_be20@thapar.edu    |
| 114 | Subhav Goyal         | 102053022 | -do-            | sgoyal4_be20@thapar.edu    |
| 115 | Kartik Gupta         | 102053052 | -do-            | kgupta6_be20@thapar.edu    |
| 116 | Ashmeet Singh Sandhu | 102183005 | -do-            | asandhu50_be21@thapar.edu  |
| 117 | Deepak Mittal        | 102183008 | -do-            | dmittal50_be21@thapar.edu  |
| 118 | Harshvardhan Pandey  | 102183046 | -do-            | hpandey1_be20@thapar.edu   |
| 119 | Anirudh Anand        | 101903004 | <b>COE4th Y</b> | aanand1_be19@thapar.edu    |
| 120 | Ujjwal Verma         | 101903097 | -do-            | uverma_be19@thapar.edu     |
| 121 | Ayush Gupta          | 101903142 | -do-            | agupta5_be19@thapar.edu    |
| 122 | Siddharth Juyal      | 101903218 | -do-            | sjuyal_be19@thapar.edu     |
| 123 | Falshabad Singh      | 101903285 | -do-            | fsingh1_be19@thapar.edu    |
| 124 | Harika Jindal        | 101903314 | -do-            | hjindal1_be19@thapar.edu   |
| 125 | Kirti Vardhan        | 101903455 | -do-            | kvardhan_be19@thapar.edu   |
| 126 | Raghav Gupta         | 101903716 | -do-            | rgupta1_be19@thapar.edu    |
| 127 | Gautam Diwan         | 101903739 | -do-            | gdiwan_be19@thapar.edu     |
| 128 | Prabhnoor Singh      | 102083037 | -do-            | pchowdhary_be19@thapar.edu |
| 129 | Babanpreet Singh     | 102116018 | <b>CSE 2ndY</b> | bameja_be21@thapar.edu     |
| 130 | Hardik Garg          | 102116086 | -do-            | hgarg1_be21@thapar.edu     |
| 131 | Ansh Midha           | 102116122 | -do-            | amidha_be21@thapar.edu     |
| 132 | Harneet Kaur         | 102117052 | -do-            | hkaur2_be21@thapar.edu     |
| 133 | Aadeshvir Singh      | 102117076 | -do-            | asingh_be21@thapar.edu     |
| 134 | Harsiddak Singh Bedi | 102117091 | -do-            | hbedi_be21@thapar.edu      |
| 135 | Kinshuk Kathpal      | 102117117 | -do-            | kkathpal_be21@thapar.edu   |
| 136 | Aditi Manmohan Vij   | 102117138 | -do-            | avij_be21@thapar.edu       |

|     |                        |           |                  |                                |
|-----|------------------------|-----------|------------------|--------------------------------|
| 137 | Uddepta Raaj Kashyap   | 102117171 | -do-             | ukashyap_be21@thapar.edu       |
| 138 | Hardik Jain            | 102117219 | -do-             | hjain2_be21@thapar.edu         |
| 139 | Nandini Naithani       | 102297703 | -do-             | nnaithani_be21@thapar.edu      |
| 140 | Jodhdeep Singh         | 102016003 | <b>CSE 3rd Y</b> | jsingh14_be20@thapar.edu       |
| 141 | Prasoon Jain           | 102016112 | -do-             | pjain1_be20@thapar.edu         |
| 142 | Gaurav Gupta           | 102017014 | -do-             | ggupta4_be20@thapar.edu        |
| 143 | Kashish Choudhary      | 102017015 | -do-             | kchoudhary_be20@thapar.edu     |
| 144 | Taranpreet Kaur Dhiman | 102017050 | -do-             | tdhiman_be20@thapar.edu        |
| 145 | Vaibhav Kaul           | 102017089 | -do-             | vkaul_be20@thapar.edu          |
| 146 | Sai Lohitaksh          | 102017090 | -do-             | sd_be20@thapar.edu             |
| 147 | Raghav Sharma          | 102017194 | -do-             | rsharma5_be20@thapar.edu       |
| 148 | Aurav S Tomar          | 102067008 | -do-             | atomar_be20@thapar.edu         |
| 149 | Phalit Jotwani         | 102067012 | -do-             | pjotwani_bemba20@thapar.edu    |
| 150 | Akshat Dogra           | 101917023 | <b>CSE 4th Y</b> | adogra2_be19@thapar.edu        |
| 151 | Kartik Arora           | 101917070 | -do-             | karora_be19@thapar.edu         |
| 152 | Shreya Somani          | 101917127 | -do-             | ssomani_be19@thapar.edu        |
| 153 | Vandita Arora          | 102118032 | <b>CSBC2ndY</b>  | varora1_be21@thapar.edu        |
| 154 | Arnav Sharma           | 102118069 | -do-             | asharma2_be21@thapar.edu       |
| 155 | Dev Choudhary          | 102018010 | <b>CSBC3rd Y</b> | dchoudhary_be20@thapar.edu     |
| 156 | Kushagra Srivastava    | 101918051 | <b>CSBC4th Y</b> | ksrivastava_be19@thapar.edu    |
| 157 | Akshat Jain            | 101918065 | -do-             | ajain17_be19@thapar.edu        |
| 158 | Omkar Arora            | 101918070 | -do-             | oarora_be19@thapar.edu         |
| 159 | Deepanshi Srivastava   | 401903006 | <b>BEMBA4thY</b> | dsrivastava_bemba19@thapar.edu |

**ELECTRICAL ENGINEERING**



|     |                       |           |          |                                 |
|-----|-----------------------|-----------|----------|---------------------------------|
| 160 | Danika Sharma         | 102104131 | BE 2nd Y | dsharma8_be21@thapar.edu        |
| 161 | Kirtveer Kaur Kharoud | 102104002 | -do-     | kkharoud_be21@thapar.edu        |
| 162 | Kunwar Preet Singh    | 102104033 | -do-     | ksingh8_be21@thapar.edu         |
| 163 | Pushpak Goel          | 102104085 | -do-     | pgoel_be21@thapar.edu           |
| 164 | Niyati Pahwa          | 102104003 | -do-     | npahwa_be21@thapar.edu          |
| 165 | Sukhmanpreet Kaur     | 102004029 | BE3rd Y  | <u>Skaur8_be20@thapar.edu</u>   |
| 166 | Gagandeep Singh       | 102004042 | -do-     | <u>gsingh16_be20@thapar.edu</u> |
| 167 | Parakhar Pandey       | 101904182 | BE 4th Y | ppandey_be19@ thapar.edu        |
| 168 | Kunal Choudhary       | 101904096 | -do-     | kchoudhary_be19@ thapar.edu     |
| 169 | Arun Saroha           | 101904174 | -do-     | asaroha_be19@thapar.edu         |

#### ELECTRONICS (INSTRUMENTATION & CONTROL) ENGINEERING

|     |                       |           |          |                             |
|-----|-----------------------|-----------|----------|-----------------------------|
| 170 | Raj Reet Kaur         | 102105118 | BE 2nd Y | rbawa_be21@thapar.edu       |
| 171 | Armaan Aggarwal       | 102105079 | -do-     | aggarwal17_be21@thapar.edu  |
| 172 | Parampreet Kaur       | 102005048 | BE3rd Y  | pkaur2_be20@thapar.edu      |
| 173 | Harshit Bharanwal     | 102005031 | -do-     | hbaranwal_be20@thapar       |
| 174 | Aprajita Naryal       | 101905067 | BE 4th Y | anaryal_be19@thapar.edu     |
| 175 | Satyam Gupta          | 101905023 | -do-     | sgupta11_be19@thapar.edu    |
| 176 | Gaurang Kaushik       | 101905141 | -do-     | gkaushik_bemba19@thapar.edu |
| 177 | Yashonidhi Srivastava | 101955006 | -do-     | ysrivastava_be19@thapar.edu |

#### ELECTRICAL & COMPUTER ENGINEERING

|     |               |           |          |                                 |
|-----|---------------|-----------|----------|---------------------------------|
| 178 | Arushi Gupta  | 102169008 | BE 2nd Y | <u>agupta35_be21@thapar.edu</u> |
| 179 | Umar Shaikh   | 102119030 | -do-     | <u>ushaikh_be21@thapar.edu</u>  |
| 180 | Abhinav Garg  | 102119045 | -do-     | <u>agarg2_be21@thapar.edu</u>   |
| 181 | Shreyya Saraf | 102119061 | -do-     | <u>ssaraf_be21@thapar.edu</u>   |

|                               |                           |           |          |                                                                                 |
|-------------------------------|---------------------------|-----------|----------|---------------------------------------------------------------------------------|
| 182                           | Gurupratap Singh Sidhu    | 102019021 | BE 3rd Y | gsidhu_be20@thapar.edu                                                          |
| 183                           | Vanshika Singal           | 102069006 | -do-     | vsingal_be20@thapar.edu                                                         |
| <b>Biomedical Engineering</b> |                           |           |          |                                                                                 |
| 184                           | Somya Bhati               | 702203014 | BE 1st Y | sbhati_btech22@thapar.edu                                                       |
| 185                           | Seerat Kaur               | 702103005 | BE 2nd Y | skaur_btech21@thapar.edu                                                        |
| 186                           | Sarthak                   | 702003025 | BE3rd Y  | Sjhalani_btech20@thapar.edu                                                     |
| 187                           | Sanchita                  | 701903021 | BE4th Y  | sanchita_btech@thapar.edu                                                       |
| <b>MECHANICAL ENGINEERING</b> |                           |           |          |                                                                                 |
| 189                           | Parik batra               | 102108040 | BE 2nd Y | <a href="mailto:Pbatra_be21@thapar.edu">Pbatra_be21@thapar.edu</a>              |
| 190                           | Nishtha Thakur            | 102108063 | -do-     | <a href="mailto:Nthakur_be21@thapar.edu">Nthakur_be21@thapar.edu</a>            |
| 191                           | Bhavleen Kaur             | 102108078 | -do-     | <a href="mailto:Bkaur1_btech21@thapar.edu">Bkaur1_btech21@thapar.edu</a>        |
| 192                           | Dhruv Maheshwari          | 102108117 | -do-     | dmaheshwari_be21@thapar.edu                                                     |
| 193                           | Udit Munjal               | 102108222 | -do-     | <a href="mailto:Umunjal_be21@thapar.edu">Umunjal_be21@thapar.edu</a>            |
| 194                           | Nilesh Arora              | 102108186 | -do-     | narora2_be21@thapar.edu                                                         |
| 195                           | Vikramjit Singh Ghotra    | 102109019 | -do-     | vghotra_be21@thapar.edu                                                         |
| 196                           | <b>Shubhashish Sharma</b> | 102108228 | -do-     | <b><a href="mailto:ssharma20_be21@thapar.edu">ssharma20_be21@thapar.edu</a></b> |
| 196                           | Khyati Batra              | 102109038 | -do-     | kbatra_be21@thapar.edu                                                          |
| 197                           | Maanveer Thakur           | 102008001 | BE3rd Y  | mthakur_be20@thapar.edu                                                         |
| 198                           | Gurkirat Singh Chhabra    | 102008022 | -do-     | gchhabra_be20@thapar.edu                                                        |
| 199                           | Ishaan Singh Grewal       | 102008045 | -do-     | igrewal_be20@thapar.edu                                                         |
| 200                           | Utkarsh Sharma            | 102008080 | -do-     | usharma_be20@thapar.edu                                                         |
| 201                           | Parteek                   | 102008096 | -do-     | pparteek_be20@thapar.edu                                                        |
| 202                           | Aditya Sinha              | 102008111 | -do-     | asinha_be20@thapar.edu                                                          |
| 203                           | Prashant Singh            | 101908001 | BE 4th Y | psingh9_be19@thapar.edu                                                         |

|                                                 |                        |           |          |                           |
|-------------------------------------------------|------------------------|-----------|----------|---------------------------|
| 204                                             | Manan Negi             | 101908030 | -do-     | mnegi_be19@thapar.edu     |
| 205                                             | Navroop Singh          | 101908059 | -do-     | nsingh4_be19@thapar.edu   |
| 206                                             | Girikraj Seemar        | 101908097 | -do-     | gseemar_be19@thapar.edu   |
| 207                                             | Sunpreet Kaur          | 101908121 | -do-     | skaur5_be19@thapar.edu    |
| 208                                             | Bharat Sayal           | 101908150 | -do-     | bsayal_be19@thapar.edu    |
| 209                                             | Dhruv Ahuja            | 401908003 | -do-     | dahuja_bemba19@thapar.edu |
| <b>MECHANICAL PRODUCTION</b>                    |                        |           |          |                           |
| 210                                             | Shruti Singla          | 101914010 | BE 4th Y | ssingla2_be19@thapar.edu  |
| 211                                             | Varun Vats             | 102094002 | -do-     | vvats60_be20@thapar.edu   |
| <b>MECHATRONICS ENGINEERING</b>                 |                        |           |          |                           |
| 212                                             | Javan Karan Singh Nagi | 102009002 | BE3rd Y  | jnagi_be20@thapar.edu     |
| 213                                             | Daksh Verma            | 102189003 | -do-     | dverma1_be20@thapar.edu   |
| 214                                             | Nehal Bhargava         | 101909012 | BE4thY   | nbhargava_be19@thapar.edu |
| 215                                             | Ravjot Singh           | 101909028 | -do-     | rsingh9_be19@thapar.edu   |
|                                                 |                        |           | BE IV Y  |                           |
| <b>M.E.(CIVIL) INFRASTRUCTURE ENGINEERING</b>   |                        |           |          |                           |
| 216                                             | Chirag Gupta           | 802223003 | ME I Y   | cgupta_me22@thapar.edu    |
| 217                                             | Aditya Chatak          | 802123001 | ME II Y  | achatak_me21@thapar.edu   |
| <b>M.E. CIVIL (STRUCTURAL ) ENGINEERING</b>     |                        |           |          |                           |
| 218                                             | Punyata Dhiman         | 802224014 | ME I Y   | pdhiman_me22@thapar.edu   |
| 219                                             | Pratyush Kumar Manglam | 802124013 | ME II Y  | pmanglamme_21@thapar.edu  |
| <b>M.E. COMPUTER SCIENCE ENGINEERING ME-CSE</b> |                        |           |          |                           |
| 220                                             | Kartik Chopra          | 802232024 | ME I Y   | kchopra_me22@thapar.edu   |
| 221                                             | Shreya Gandhi          | 802232042 | -do-     | sgandhi_me22@thapar.edu   |

| <b>MASTER OF COMPUTER APPLICATION (MCA)</b>            |                    |           |              |                                                                                |
|--------------------------------------------------------|--------------------|-----------|--------------|--------------------------------------------------------------------------------|
| 222                                                    | Vagmi Tiwari       | 202201049 | MCA I Y      | <a href="mailto:Vtiwari_mca22@thapar.edu">Vtiwari_mca22@thapar.edu</a>         |
| 223                                                    | Shlok Aggarwal     | 202201040 | -do-         | <a href="mailto:Saggarwal_mca22@thapar.edu">Saggarwal_mca22@thapar.edu</a>     |
| 224                                                    | Akshit Sharma      | 202101004 | MCA2nd Y     | <a href="mailto:asharma_mca21@thapar.edu">asharma_mca21@thapar.edu</a>         |
| 225                                                    | Vanshika           | 202101029 | -do-         | <a href="mailto:vvanshika_mca21@thapar.edu">vvanshika_mca21@thapar.edu</a>     |
| <b>M.E. ELECTRONICS AND COMM.ENGINEERING (ECE)</b>     |                    |           |              |                                                                                |
| 226                                                    | Shubham Chaudhary  | 802261002 | MT Ist ECE)Y | <a href="mailto:schaudhary_me22@thapar.edu">schaudhary_me22@thapar.edu</a>     |
| 227                                                    | Amit Rani          | 802161006 | ME I Y       | <a href="mailto:arani_me21@thapar.edu">arani_me21@thapar.edu</a>               |
| <b>M.TECH. VLSI DESIGN &amp; CAD (ECED)</b>            |                    |           |              |                                                                                |
| 228                                                    | Ritwik Yadav       | 602262017 | MT Ist Year  | <a href="mailto:ryadav_mtech22@thapar.edu">ryadav_mtech22@thapar.edu</a>       |
| 229                                                    | Dewanshi Mahawar   | 602262009 | -do-         | <a href="mailto:dmahawar_mtech22@thapar.edu">dmahawar_mtech22@thapar.edu</a>   |
| 230                                                    | Jaskiran Kaur Gope | 602162007 | MT 2nd Year  | <a href="mailto:jgope_mtech21@thapar.edu">jgope_mtech21@thapar.edu</a>         |
| 231                                                    | Sri Kiran          | 602162019 | -do-         | <a href="mailto:smaddi_mtech21@thapar.edu">smaddi_mtech21@thapar.edu</a>       |
| <b>M.E. (POWER SYSTEMS AND ELECTRIC DRIVES) (EIED)</b> |                    |           |              |                                                                                |
| 232                                                    | Naman              | 802242003 | ME I Y       |                                                                                |
|                                                        |                    |           | ME II Y      |                                                                                |
| <b>M.TECH. BIOTECHNOLOGY</b>                           |                    |           |              |                                                                                |
| 233                                                    | Mansi Singh        | 602204012 | MT Ist Y     | <a href="mailto:Msingh_mtech22@thapar.edu">Msingh_mtech22@thapar.edu</a>       |
| 234                                                    | Amitosh Ghosh      | 602104020 | MT2ndY       | <a href="mailto:Aghogh_mtech21@thapar.edu">Aghogh_mtech21@thapar.edu</a>       |
| <b>M.SC. PHYSICS</b>                                   |                    |           |              |                                                                                |
| 235                                                    | Vandana Mishra     | 302204007 | MS I Y       | <a href="mailto:vmishra_msc22@thapar.edu">vmishra_msc22@thapar.edu</a>         |
| 236                                                    | Pranjal Chaturvedi | 302104005 | MS IY        | <a href="mailto:pchaturvedi_msc21@thapar.edu">pchaturvedi_msc21@thapar.edu</a> |
| <b>M.SC. MATHEMATICS</b>                               |                    |           |              |                                                                                |
| 237                                                    | Kanika Narang      | 302108011 | MS II Y      | <a href="mailto:knarang_msc21@thapar.edu">knarang_msc21@thapar.edu</a>         |

| <b>M.SC. MATHEMATICS &amp; COMPUTING</b>           |                      |           |            |                                                                            |
|----------------------------------------------------|----------------------|-----------|------------|----------------------------------------------------------------------------|
| 238                                                | Supreet Kaur         | 302203012 | MSI Y      | <a href="mailto:skaur_msc22@thapar.edu">skaur_msc22@thapar.edu</a>         |
| 239                                                | Shivam Dogra         | 302103009 | MSIY       | <a href="mailto:sdogra_msc21@thapar.edu">sdogra_msc21@thapar.edu</a>       |
| <b>M.SC. BIOTECHNOLOGY</b>                         |                      |           |            |                                                                            |
| 240                                                | Sanyogita Sharma     | 302201010 | M.SC.IsY   | <a href="mailto:Ssharma_msc22@thapar.edu">Ssharma_msc22@thapar.edu</a>     |
| 241                                                | Yukti                | 302101031 | M.SC.2nd Y | <a href="mailto:Ydwivedi_msc21@thapar.edu">Ydwivedi_msc21@thapar.edu</a>   |
| <b>M.Sc. CHEMISTRY &amp; BIOCHEMISTRY</b>          |                      |           |            |                                                                            |
| 242                                                | Mr. Rahul Rana       | 302202009 | M.S.1st Y  | <a href="mailto:rrana_msc22@thapar.edu">rrana_msc22@thapar.edu</a>         |
| 243                                                | Meghana Goel         | 302102009 | M.S. 2nd Y | <a href="mailto:mgoel_msc21@thapar.edu">mgoel_msc21@thapar.edu</a>         |
| <b>M.Sc.- Biochemistry</b>                         |                      |           |            |                                                                            |
| 244                                                | Ms. Anshika Khandwal | 302107005 | M.S. 2nd Y | <a href="mailto:akhandwal_msc21@thapar.edu">akhandwal_msc21@thapar.edu</a> |
| <b>M. Tech. Environment Science and Technology</b> |                      |           |            |                                                                            |
| 245                                                | Romaisa Ismail       | 602201005 | ESTIY      |                                                                            |
| <b>M.E. (CAD/CAM ENGINEERING )</b>                 |                      |           |            |                                                                            |
| 246                                                | Tarun Kochar         | 802284014 | ME Ist Y   | <a href="mailto:tkochar_me22@thapar.edu">tkochar_me22@thapar.edu</a>       |
| 247                                                | Aditya Tiwari        | 802184004 | ME 2nd Y   | <a href="mailto:atiwari_me21@thapar.edu">atiwari_me21@thapar.edu</a>       |
| <b>M.E (Thermal Engineering)</b>                   |                      |           |            |                                                                            |
| 248                                                | Swathi s             | 802283006 | ME I Y     | <a href="mailto:ss_me22@thapar.edu">ss_me22@thapar.edu</a>                 |
| 249                                                | Sourabh Mathur       | 802183005 | ME 2nd Y   | <a href="mailto:smathur_me21@thapar.edu">smathur_me21@thapar.edu</a>       |
| 250                                                | Aditi Bajaj          | 901706001 | Ph.D (ECE) | <a href="mailto:aditi.bajaj@thapar.edu">aditi.bajaj@thapar.edu</a>         |
| 251                                                | Naveen Kandpal       | 901906001 | -do-(ECE)  | <a href="mailto:nkandpal_phd19@thapar.edu">nkandpal_phd19@thapar.edu</a>   |
| 252                                                | Himani Bhardwaj      | 902110013 | SHSS PH.D  | <a href="mailto:Hbhardwaj_phd21@thapar.edu">Hbhardwaj_phd21@thapar.edu</a> |

**DEAN (STUDENT AFFAIRS)**

Copy to:

- 
- 1 Director-for kind information
  - 2 Deputy Director
  - 3 Deans
  - 4 Registrar
  - 5 All Heads of Departments/Schools
  - 6 Concerned Faculty /Staff Members
  - 7 All Institute/Hostel Notice Boards

---

**Annexure 10.1.7**

**Constitution of Anti Ragging Committees and Squads**

---

## OFFICE OF THE DEAN OF STUDENT AFFAIRS

TI/DS/  
Dated: 26-7-2023

ALL WARDENS

**Subject: Anti-Ragging Committee for checking menace of Ragging**

The following wardens comprise the Anti-Ragging Committee for the hostels from 29-7-2023 onwards:

| S.No. | Name of Faculty Member        | Hostel                     |
|-------|-------------------------------|----------------------------|
| 1     | Dr. Rahul Upadhyay (ECE)      | Warden Hostel -A           |
| 2     | Dr. Mohit Agarwal (ECED)      | Warden Hostel -B           |
| 3     | Dr. Bharat Garg (ECED)        | Assistant Warden Hostel-B  |
| 4     | Dr. Hari Shankar Singh (ECED) | Warden Hostel-C            |
| 5     | Dr. Madhup Kumar Mittal (MED) | Warden Hostel -H           |
| 6     | Dr. Neeraj Grover (MED)       | Warden Hostel-M            |
| 7     | Dr. Parmod Kumar Vaishnav     | Assistant Warden Hostel-M  |
| 8     | Dr. Munish Kansal (SOM)       | Warden Hostel-J            |
| 9     | Dr. Sandeep Pandey (EIED)     | Assistant Warden Hostel-J  |
| 10    | Dr. Anju Bala (CSED)          | Warden, Hostel-Q           |
| 11    | Dr. Parimita Roy (SOM)        | Assistant Warden Hostel -Q |
| 12    | Dr. Rinkle Rani (CSED)        | Warden Hostel- PG          |
| 13    | Dr. M. Vasundhara (BTD)       | Warden Hostel -E           |
| 14    | Dr. Deepshikha Tiwari (CSED)  | Warden Hostel-G            |
| 15    | Dr. Neeraj Kumar (MED)        | Warden Hostel -K           |
| 16    | Dr. Rajendra Kumar (MED)      | Warden Hostel -L           |

---



## OFFICE OF THE DEAN OF STUDENT AFFAIRS

TJ/DS/

Dated: 26-7-2023

### ALL HEADS OF DEPARTMENTS/SCHOOLS

#### Subject: Dine with Students and Anti-Ragging Duty

The UG first year students will arrive on campus for their Orientation week, followed by their classes from 31 July, 2023 onwards. As they are not acquainted with their faculty, an informal meeting of the students with their faculty (mostly teaching UG first year, currently) during Dinner in Hostels has been planned as per the following schedule:

| Date      | Name of the faculty member                     | Time           | Hostel Name | Dept./School | Dinner |
|-----------|------------------------------------------------|----------------|-------------|--------------|--------|
| 31-7-2023 | Dr. Dwijendra Partap Singh<br>Dr. Vikas Sharma | 7.30-9.00 p.m. | H           | SPMS<br>SOM  | Dinner |
|           | Dr. Manoj Kumar Sharma<br>Dr. Rohit Singla     | 7.30-9.00 p.m. | J           | SPMS<br>MED  | Dinner |
|           | Dr. Ratnesh Kumar<br>Dr. Sourav Marik          | 7.30-9.00 p.m. | K           | MED<br>SPMS  | Dinner |
|           | Dr. Alka Upadhaya<br>Dr. Davinder Kumar        | 7.30-9.00 p.m. | E           | SPMS<br>SCBC | Dinner |
|           | Dr. Meenakshi Rana<br>Dr. Manpreet Singh       | 7.30-9.00 p.m. | G           | SOM<br>CED   | Dinner |
|           | Dr. Sunil Devi<br>Dr. Lateef Ahmad Wani        | 7.30-9.00 p.m. | I           | SPMS<br>SOM  | Dinner |
|           | Dr. Deepa Mudgal<br>Dr. Amzad Ali              | 7.30-9.00 p.m. | PG          | MED<br>SCBC  | Dinner |
| 1-8-2023  | Dr. Abhinay Kumar<br>Dr. Ravinder Kumar Joshi  | 7.30-9.00 p.m. | H           | CED<br>MED   | Dinner |
|           | Dr. S.S. Bhullar<br>Dr. Vivek Gupta            | 7.30-9.00 p.m. | J           | MED<br>CED   | Dinner |
|           | Dr. P. Kalyan Chakravarty<br>Dr. Partik Tiwari | 7.30-9.00 p.m. | K           | MED<br>CED   | Dinner |
|           | Dr. Meenu Rani<br>Dr. Sachin Singh             | 7.30-9.00 p.m. | E           | SOM<br>MED   | Dinner |
|           | Dr. Smita Agrawal<br>Dr. Satish Kumar Sharma   | 7.30-9.00 p.m. | G           | CSED<br>SOM  | Dinner |
|           | Dr. Sapna Sharma<br>Dr. Rajendera Kumar Roul   | 7.30-9.00 p.m. | I           | SOM<br>CSED  | Dinner |
|           | Dr. Apurva Bakshi<br>Dr. S.D. Tiwari           | 7.30-9.00 p.m. | PG          | SHSS<br>SPMS | Dinner |
| 2-8-2023  | Dr. Anuj Kumar<br>Dr. Prabhat Yadav            | 7.30-9.00 p.m. | H           | SOM<br>MED   | Dinner |
|           | Dr. Dheeraj Kumar Singh<br>Dr. Soumen Basu     | 7.30- 9.00p.m. | J           | SPMS<br>SCBC | Dinner |

|                 |                                                 |                |    |              |        |
|-----------------|-------------------------------------------------|----------------|----|--------------|--------|
|                 | Dr. Neeraj Kumar<br>Dr. Harish Garg             | 7.30-9.00 p.m. | K  | MED<br>SOM   | Dinner |
|                 | Dr. Daljeet Singh<br>Dr. Mily Bhattachary       | 7.30-9.00 p.m. | E  | MED<br>SCBC  | Dinner |
|                 | Dr. Vikas Tyagi<br>Dr. Sujata Rani              | 7.30-9.00 p.m. | G  | SCBC<br>CSED | Dinner |
|                 | Dr. Ranjana Prakash<br>Dr. Rahul Kumar          | 7.30-9.00 p.m. | I  | SCBC<br>SPMS | Dinner |
|                 | Dr. Seemu Sharma<br>Dr. Souvik Ganguli          | 7.30-9.00 p.m. | PG | CSED<br>EIED | Dinner |
| <b>3-8-2023</b> | Dr. Debabrata Deb<br>Dr. Rajesh Dhayal          | 7.30-9.00 p.m. | H  | SPMS<br>SOM  | Dinner |
|                 | Dr. Sumit Chandok<br>Dr. Khuman Bhagirath       | 7.30-9.00 p.m. | J  | SOM<br>SHSS  | Dinner |
|                 | Dr. Sumit Kumar Aggarwal<br>Dr. Banibrata Maity | 7.30-9.00 p.m. | K  | SHSS<br>SCBC | Dinner |
|                 | Dr. Raman Kumar Goyal<br>Dr. Amrita             | 7.30-9.00 p.m. | E  | CSED<br>CSED | Dinner |
|                 | Dr. Neenu Garg<br>Dr. Bhupesh Goyal             | 7.30-9.00 p.m. | G  | CSED<br>SCBC | Dinner |
|                 | Dr. Satnam Singh<br>Dr. Pulak Avinashi          | 7.30-9.00 p.m. | I  | SCBC<br>SHSS | Dinner |
|                 | Dr. Sapanpreet Kaur<br>Dr. Jasvinder Pal Singh  | 7.30-9.00 p.m. | PG | SHSS<br>CSED | Dinner |
| <b>4-8-2023</b> | Dr. Anoop Kumar Verma<br>Dr. Saif Nalband       | 7.30-9.00 p.m. | H  | SEE<br>CSED  | Dinner |
|                 | Dr. Amit Dhir<br>Dr. Deepak Gumber              | 7.30-9.00 p.m. | J  | SEE<br>SOM   | Dinner |
|                 | Dr. Ashoutosh Kumar<br>Dr. Deba Prasad Dash     | 7.30-9.00 p.m. | K  | SEE<br>EIED  | Dinner |
|                 | Dr. Sumana Maiti<br>Dr. Gourav Goyal            | 7.30-9.00 p.m. | E  | CSED<br>SEE  | Dinner |
|                 | Dr. Shilpi Verma<br>Dr. Husanbir Singh Pannu    | 7.30-9.00 p.m. | G  | SEE<br>CSED  | Dinner |
|                 | Dr. Geetika Dua<br>Dr. Santosh Sonar            | 7.30-9.00 p.m. | I  | ECED<br>EIED | Dinner |
|                 | Dr. Navdeep Dhillon<br>Dr. Yogesh Tatte         | 7.30-9.00 p.m. | PG | SHSS<br>EIED | Dinner |

The faculty shall reach the respective hostel at the specified time. The FROSH Team has been deputed in each hostel. The students of FROSH team will arrange the interaction of faculty members with the first-year students.

These faculty members will also be responsible for ensuring that no incident of ragging takes place during visit to the hostel by taking rounds of the hostel, preventing the entry of outsiders and reporting to warden/coordinating warden in case of any such incident.

---

Please inform the concerned faculty member(s) of your department/school and make alternate arrangement of faculty member(s) on leave/official tour, if any.



DEAN, STUDENT AFFAIRS

CC to:

- 1 Director-for kind information
- 2 Dy. Director
- 3 All Deans
- 4 All Heads of Deptt./Schools
- 5 Registrar
- 6 Coordinating Warden
- 7 All Wardens



## OFFICE OF THE DEAN OF STUDENT AFFAIRS

No: TI/DS/  
Dated: 9-9-2022

### ALL HEADS OF DEPARTMENTS/SCHOOLS

#### **Subject: Dine with Students and Anti-Ragging Duty**

The UG first year students have arrived on campus for their Orientation week, followed by their classes from September 19, 2022 onwards. As they are not acquainted with their faculty, an informal meeting of the students with their faculty (mostly teaching UG first year, currently) during **Dinner in Hostels** has been planned as per the following schedule:

| Date    | Name of the Faculty member                        | Time            | Hostel Name | Deptt./School | Lunch/Dinner |
|---------|---------------------------------------------------|-----------------|-------------|---------------|--------------|
| 12.9.22 | DR. AMIT DHIR<br>DR. MOHIT AGGARWAL               | 7.30- 9.00 p.m. | A           | SEE<br>ECED   | DINNER       |
|         | DR. N.TEJO PRAKASH<br>DR. AMJAD ALI               | 7.30- 9.00 p.m. | J           | SEE<br>SCBC   | DINNER       |
|         | DR. AJAY KAKKAR<br>DR. RAVINDER SINGH JOSHI       | 7.30- 9.00 p.m. | H           | ECED<br>MED   | DINNER       |
|         | MS. SIMARJIT KAUR<br>DR. SMITA AGGARWAL           | 7.30- 9.00 p.m. | E           | COE<br>COE    | DINNER       |
|         | DR.MILY BHATTACHARYA<br>DR.HARPREET VOHRA         | 7.30- 9.00 p.m. | G           | SCBC<br>ECED  | DINNER       |
|         | MS. ANUPAM GARG<br>DR.RAJENDRA KUMAR ROUL         | 7.30- 9.00 p.m. | I           | COE<br>COE    | DINNER       |
|         | MS. DALJEET KAUR<br>MS. DAMANJOT KAUR             | 7.30- 9.00 p.m. | PG          | SOM<br>SCBC   | DINNER       |
| 13.9.22 | DR. ANSHU PARASHAR<br>MR. RAJ KUMAR DAS           | 7.30- 9.00 p.m. | A           | COE<br>SCBC   | DINNER       |
|         | DR. DHEERAJ GUPTA<br>DR. MANMOHAN CHHIBBER        | 7.30-9.00 p.m.  | J           | MEE<br>SCBC   | DINNER       |
|         | DR. ANOOP VERMA<br>DR. ASHUTOSH KUMAR             | 7.30- 9.00 p.m. | H           | SEE<br>SEE    | DINNER       |
|         | DR. POONAM UNIYAL<br>MR. JASVINDER PAL SINGH      | 7.30-9.00 p.m.  | E           | SPMS<br>COE   | DINNER       |
|         | DR. ANSHUL SHARMA<br>DR.RAJESH DHAYAL             | 7.30- 9.00 p.m. | G           | MEE<br>SOM    | DINNER       |
|         | DR.RANJANA PRAKASH<br>DR.DWIJENDRA PRATAP SINGH   | 7.30-9.00 p.m.  | I           | SCBC<br>SPMS  | DINNER       |
|         | DR. DIKSHA SHARMA<br>DR. URVINDER SINGH           | 7.30- 9.00 p.m. | PG          | SHSS<br>ECED  | DINNER       |
| 14.9.22 | DR. VAIBHAV AGGARWAL<br>DR.CHINMAYA PANIGRAHY     | 7.30- 9.00 p.m. | A           | ECE<br>COE    | DINNER       |
|         | DR. DEEPAK KUMAR GUMBER<br>DR. SANDEEP KR. SHARMA | 7.30-9.00 p.m.  | J           | SOM<br>MEE    | DINNER       |
|         | DR. DEBABRATA DEB<br>DR. SURENDRA DEO TIWARI      | 7.30-9.00 p.m.  | H           | SPMS<br>SPMS  | DINNER       |
|         | DR.BHUPESH GOYAL<br>DR.SAPNA SHARMA               | 7.30- 9.00 p.m. | E           | SCBC<br>SOM   | DINNER       |

|           |                                                       |                 |    |              |        |
|-----------|-------------------------------------------------------|-----------------|----|--------------|--------|
|           | DR. AANCHAL YADAV<br>DR. SUNIL DEVI                   | 7.30- 9.00 p.m. | G  | MEE<br>SPMS  | DINNER |
|           | DR. DIPTIMAN CHOUDHURY<br>DR. SACHIN SINGH            | 7.30-9.00p.m.   | I  | SCBC<br>MEE  | DINNER |
|           | MS. RITU GARG<br>DR. VIVEK JAIN                       | 7.30- 9.00 p.m. | PG | SPMS<br>MEE  | DINNER |
| 15.9.22   | MR. PANKAJ KUMAR<br>DR. RISHIKESH PANDEY              | 7.30- 9.00 p.m. | A  | MEE<br>ECED  | DINNER |
|           | MR. JASKIRAT SINGH<br>DR. K.P. KALYAN<br>CHAKRAVARTHY | 7.30- 9.00 p.m. | J  | COE<br>MEE   | DINNER |
|           | DR.SATISH KUMAR SHARMA<br>DR.SOUVIK GANGULI           | 7.30-9.00 p.m.  | H  | SOM<br>ECED  | DINNER |
|           | MS. NIDHI KALRA<br>DR.SOUMEN BASU                     | 7.30-2.00 p.m.  | E  | COE<br>SCBC  | DINNER |
|           | DR. JAINY SACHDEVA<br>DR. VIJAY LUXMI                 | 7.30-9.00 p.m.  | G  | EIED<br>SCBC | DINNER |
|           | MR. VIKAS TYAGI<br>DR. SHILPI VERMA                   | 7.30- 9.00 p.m. | I  | SCBC<br>SEE  | DINNER |
|           | MS. SAPANPREET KAUR<br>DR. RAJNEESH SHARMA            | 7.30-9.00 p.m.  | PG | MSS<br>ECED  | DINNER |
| 16.9.2022 | DR. ANIL VASHISHT<br>MR. AMIT KUMAR TRIVEDI           | 7.30- 9.00 p.m. | A  | COE<br>COE   | DINNER |
|           | DR. ANUJ KUMAR<br>DR. SOURAV MARIK                    | 7.30- 9.00 p.m. | J  | SOM<br>SPMS  | DINNER |
|           | DR. ARUN KUMAR CHATTERJEE<br>DR. BONAMALI PAL         | 7.30- 9.00 p.m. | H  | ECED<br>SCBC | DINNER |
|           | DR. VINAY KUMAR TRIVEDI<br>MS. GARIMA SINGH           |                 | E  | ECED<br>COE  | DINNER |
|           | DR.MANOJ SHARMA<br>DR.ALKA UPADHYAY                   | 7.30- 9.00 p.m. | G  | SPMS<br>SPMS | DINNER |
|           | MS. GEETIKA SHARMA<br>DR. VISHAL GUPTA                | 7.30-9.00 p.m.  | I  | COE<br>MEE   | DINNER |
|           | MS. MANDEEP KAUR<br>DR. PRIYA VASHIST                 | 7.30- 9.00 p.m. | PG | SCBC<br>SCBC | LUNCH  |
| 17.9.2022 | DR. NISHU JOSHI<br>DR. KISHORE KHANNA                 | 7.30-9.00 p.m.  | A  | SEE<br>MED   | DINNER |
|           | DR. ASHUTOSH KUMAR SINGH<br>MR. DEVINDER SINGH GILL   | 7.30- 9.00 p.m. | J  | ECED<br>SEE  | DINNER |
|           | MR. SHIREESH KUMAR RAI<br>MR. SUBIMAN CHATTERJEE      | 7.30-9.00 p.m.  | H  | ECE<br>ECE   | DINNER |
|           | MS. RAJINDER KAUR<br>DR. SMITA AGRAWAL                | 7.30-9.00 p.m.  | E  | SOM<br>COE   | DINNER |
|           | MS. NEENU GARG<br>MS. NAVPREET                        | 7.30- 9.00 p.m. | G  | COE<br>COE   | DINNER |
|           | MS. ARASHDEEP KAUR<br>MR. BANIBRATA MAITY             | 7.30-9.00 p.m.  | I  | SCBC<br>SCBC | DINNER |
|           | DR.DHEERAJ KUMAR SINGH<br>PALAK GOYAL                 | 7.30- 9.00 p.m. | PG | SPMS<br>COE  | DINNER |
| 18.9.2022 | DR. DAVINDER KUMAR<br>DR. DEBA PRASAD DASH            | 7.30-9.00p.m.   | A  | MEE<br>ELE   | DINNER |
|           | DR. APURVA BAKSHI<br>DR. KAMALDEEP PAUL               | 7.30-9.00p.m.   | J  | SHSS<br>SCBC | DINNER |
|           | DR.VIKAS<br>DR.AMIT MUNJAL                            | 7.30-9.00 p.m.  | H  | SOM<br>ECE   | DINNER |
|           | DR. DALJEET SINGH<br>DR. ANJALI GIRI                  | 7.30- 9.00 p.m. | E  | MEE<br>SCBC  | DINNER |

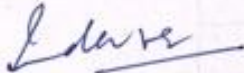


|  |                                         |                 |    |              |        |
|--|-----------------------------------------|-----------------|----|--------------|--------|
|  | DR.SURYA PRAKASH<br>DR.DEEPA MUDGAL     | 7.30-9.00 p.m.  | G  | EIED<br>MEE  | DINNER |
|  | DR. SUMIT VYAS<br>MS. SHIVANI SHARMA    | 7.30- 9.00 p.m. | I  | ECED<br>COE  | DINNER |
|  | MS. SUKHDEEP KAUR<br>MS. SUNIDHI SHARMA | 7.30-9.00 p.m.  | PG | SCBC<br>SCBC | DINNER |

The faculty shall reach the hostel mess at the specified time and shall interact with the students especially on academics.

These faculty members will also be responsible for ensuring that no incident of ragging takes place during visit to the hostel by taking rounds of the hostel, preventing the entry of outsiders, and reporting to warden/coordinating warden in case of any such incident.

**Please inform the concerned faculty member(s) of your department/school and make alternate arrangement of faculty member(s) on leave/official tour, if any.**



(INDERVEER CHANA)  
DEAN (STUDENT AFFAIRS)

Copy to:-

1. Director – for kind information
2. Dy. Director
3. All Deans
4. All Heads of Deptt./Schools
4. Registrar
5. Coordinating Warden
6. Concerned Wardens
7. Concerned Faculty members

---

**Annexure 10.1.8**

**Internal Complaint Committee**

TIET/HR/396-B  
03<sup>rd</sup> July 2023

**C I R C U L A R**

The **Internal Complaint Committee** has been reconstituted for the prevention of sexual harassment of women at workplace w.e.f 1<sup>st</sup> July 2023 to 30<sup>th</sup> June 2024. The committee will also be responsible for "Gender Sensitization".

The following are the members of the committee

- |                                                                               |                 |
|-------------------------------------------------------------------------------|-----------------|
| 1. Dr. (Mrs.) Shruti Sharma, Professor CED                                    | Chairperson     |
| 2. Dr. (Mrs.) Gagandeep Kaur, Associate Professor, EIED                       | Member          |
| 3. Dr. (Mrs.) Sonia Garg, Associate Professor-LMTSM                           | Member          |
| 4. Dr. Dwarika Nath Ratha, Professor-CED                                      | Member          |
| 5. Mr. Hunish Bansal, Deputy Registrar, Academics                             | Member          |
| 6. Ms. Alka Pandita, Dy. Manager (Accreditation & Rankings)                   | Member          |
| 7. Ms. Aparna Jain, Advocate & Founding Partner, Knowledgentia Consultants    | External Member |
| 8. Three Students (At least 2 girl students to be nominated by Chairman, ICC) | Member(s)       |

**Note:**

1. *Derabassi Campus representative will only be required if the complaint pertains to Derabassi Campus.*
2. *Student representatives will only be nominated and form a part of the committee if it is a student related complaint.*

*Shruti Sharma*

Chief Human Resources Officer



---

## **Annexure 10.1.9**

### **Constitution of Internal Quality Assurance Cell (IQAC)**

**THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY : PATIALA.**

**Dated : November 10, 2020.**

**CIRCULAR**

The Internal Quality Assurance Cell (IQAC) has been re-constituted as per the following :

- |     |                                |   |                                                                                   |                                                       |
|-----|--------------------------------|---|-----------------------------------------------------------------------------------|-------------------------------------------------------|
| (a) | Head of HEI                    | : | Prof. Prakash Gopalan                                                             | Director, TIET<br>(Ex-officio)                        |
| (b) | Senior administrative official | : | Dr. Padmakumar Nair                                                               | Director, LMTSM<br>(Ex-officio)                       |
|     |                                | : | Dr. S.S. Bhatia                                                                   | Dean of Academic Affairs<br>(Ex-officio)              |
|     |                                |   | Dr. R.S. Kaler                                                                    | Dean of Faculty Affairs<br>(Ex-officio)               |
|     |                                |   | Dr. Rafat Siddique                                                                | Dean of Research & Sponsored Projects<br>(Ex-officio) |
|     |                                |   | Dr. Inderveer Chana                                                               | Dean of Student Affairs<br>(Ex-officio)               |
|     |                                |   | Dr. Gurbinder Singh                                                               | Registrar<br>(Ex-officio)                             |
| (c) | Three to eight faculty members | : | Dr. Maninder Singh<br>Head, Department of Computer Science and Engineering        | Member                                                |
|     |                                |   | Dr. T.P. Singh<br>Head, Department of Mechanical Engineering                      | Member                                                |
|     |                                |   | Dr. Alpana Agarwal<br>Head, Department of Electronics & Communication Engineering | Member                                                |
|     |                                |   | Dr. Prem Pal Bansal<br>Head, Department of Civil Engineering                      | Member                                                |
|     |                                |   | Dr. O.P. Pandey<br>Head, School of Physics & Material Science                     | Member                                                |

- |                                                                               |                                                                                                       |                  |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------|
|                                                                               | Dr. Ravi Kiran<br>Head School of Humanities<br>and Social Sciences                                    | Member           |
| (d) One /two Member<br>from Management :                                      | Mr. Sharad Sanjay Sen<br>Group Vice President, HR<br>Avantha Group                                    | Member           |
| (e) One/ two nominee<br>from Local : Society,<br>students and Alumni          | Student representative to<br>be nominated by DOSA<br><br>One notable Alumni to be<br>nominated by ARC | Members          |
| (f) One/ two nominee<br>from employers /<br>Industrialists/<br>Stakeholders : | Mr. Rajat Sikka<br>Academic Liaisoning<br>Officer, TCS                                                | Member           |
| (g) Coordinator of IQAC :                                                     | Dr. Ajay Batish<br>Deputy Director                                                                    | Member Secretary |

  
REGISTRAR

---

**Annexure 10.1.10**

---

## **INDEX**

| <b>S.no.</b> | <b>Areas</b>        | <b>Page no.</b> |
|--------------|---------------------|-----------------|
| 1            | Interpretation      | 3               |
| 2            | Operational Matters | 5               |
| 3            | Academic Matters    | 13              |
| 4            | Personnel Matters   | 14              |
| 5            | Annexure -1         | 15              |
| 6            | Annexure -2         | 16              |

---

## **INTERPERTATION**

---

While studying the Delegation of Authority Matrix, please consider the following:

## **INTERPERTATION**

### *Coverage*

- The Chairman, Board of Governors (CBOG) has full powers, including powers to modify all matters specified in this document.
- The term “Director” refers to Director based at Patiala Campus.

### *Endorsement*

In case certain powers are beyond the scope of Executive, approval may be obtained from a level higher than the Executive, if the latter meets the criteria mentioned for specific purposes.

### *Delegation*

The Executive empowered to approve may delegate his authority subject to the prior and written consent of Chairman, BOG through Director.

### *Exceptions*

If, in case of any department, any exception needs to be made in these rules for operational reasons or absence of personnel at appropriate levels or for any other reason; the department head(s) may propose a one- time list of authorization from Chairman, BOG through Director.

### *Compliance Reports*

All department heads have been vested with powers and authority necessary for management of day to day operations of the respective departments, and hence are solely responsible for all statutory obligations.

---

**OPERATIONAL MATTERS**



## **PROCUREMENTS**

### **A. All Civil Jobs of capital nature**

Capex jobs to be undertaken through following procedural & reporting :

1. A separate budget code to be defined for each work(s) for cost monitoring.
2. Bids to be invited through floating of Tender / advertisement through University's website & local /national daily newspapers.
3. Shortlisting of contractor (L-1) to be done separately (technically & commercially) in the presence of Registrar / other officer(s) appointed by Director for the said purpose.
4. Final CSQ to be prepared based on negotiations & approved through Director in lieu of point No. 3 above.
5. Order to be placed post legal vetting of draft document & pre-audit.
6. Exception to above process to be approved through Director.

Checklists of documents to be prepared :

- Statutory Compliances
- Budget monitoring.
- Project monitoring (carrying details of start of work, progress of work against activity milestones, estimated closure of works)
- Deviation reports for Time & Cost over-runs

### **B. All Capex Purchases (including IT Assets (Hardware & software))**

#### **Within Budget**

| <b>Head of Depts/School/Centre</b> | <b>Registrar/Deputy Director/Head Commercial</b> | <b>Director</b> |
|------------------------------------|--------------------------------------------------|-----------------|
| Full Powers<br>(Indenting Only)    | Upto Rs. 10.00 lacs                              | Full Powers     |

- Financial Limit per purchase order.
- Procurements to be done as per guidelines defined in SOP- Purchase to Pay.
- All indents to be approved through Director.

## Beyond Budget

|             |
|-------------|
| <b>CBOG</b> |
| Full Powers |

## C. Disposal & Write off of Fixed Assets

|                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Director (jointly with Finance Office &amp; Registrar)</b>                                                                                                                                                                           |
| Full powers with prior ratification by CBOG                                                                                                                                                                                             |
| <ul style="list-style-type: none"><li>• Sale(s) to be effected to highest bid/quotes (invited through tender)</li><li>• Comparative statement of bids to be pre audited.</li><li>• Sales against Demand Draft/Pay order only.</li></ul> |

## D. Regular Purchases (Store Consumables & other items of regular consumption in departments)

### Within Budget

| Head of<br>Depts/School/Centre                                                                                                                                                                                                                                                                                                                                                          | Registrar/Deputy Director /<br>Head Commercial | Director    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------|
| Full Powers<br>(Indenting Only)                                                                                                                                                                                                                                                                                                                                                         | Upto Rs. 10.00 lacs                            | Full Powers |
| <ul style="list-style-type: none"><li>• Financial limit per purchase order</li><li>• All indents to be approved through Director.</li><li>• Procurements (excluding items covered through ARC in D.1 below) to be done as per guidelines defined in SOP- Purchase to Pay.</li><li>• Chemicals procurement to be done as per guidelines defined in SOP – Chemical Procurement.</li></ul> |                                                |             |

**D.1 Finalization of Rate Contract for certain regular items (Stationary, House Keeping, Electrical items, Plumbing, Wooden ply-boards, etc)**

**Within Budget**

| Head of Depts/ Centre/ Division                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Deputy Director / Head – Commercial | Director    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------|
| Full Powers (Indenting only)                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Upto Rs 10.00 lacs                  | Full Powers |
| <ul style="list-style-type: none"> <li>• One time Indents (based on annual requirement) to be approved through Director.</li> <li>• Financial Limit of POs and approving authorities to be based on <b>Clause D above</b>.</li> </ul>                                                                                                                                                                                                                                            |                                     |             |
| <p><u>Guidelines related to finalization of Rate Contracts &amp; stock monitoring</u></p> <ul style="list-style-type: none"> <li>• Rate negotiations could be undertaken for a long terms period (more than 1 year)</li> <li>• Contract to be entered for 1 year (initially) and renewed further on annual basis on based on performance evaluation of vendor /contractor at pre- negotiated rates.</li> <li>• Stores / Concerned Departments to monitor stock levels</li> </ul> |                                     |             |

**D.2 Regular Purchases (Beyond Budget)**

|             |
|-------------|
| <b>CBOG</b> |
| Full Powers |

**E. Emergent Purchases (as indicated in Annexure-1)**

**Within Budget**

| Head of Depts /School/ Centre                                                                                                                                                                                                                                                                                                                                                                          | Registrar / Head- Commercial / Deputy Director | Director    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------|
| Upto Rs. 0.50 lacs                                                                                                                                                                                                                                                                                                                                                                                     | Upto Rs.1.00 lacs                              | Full powers |
| <ul style="list-style-type: none"> <li>• Indents to be approved by Director.</li> <li>• Financial Limit per purchase order.</li> <li>• Vendors to be finalized based on bids collected by team approved by Director.</li> <li>• All efforts should be made to minimize emergent purchases through advance planning.</li> <li>• Emergent Purchases (Beyond Budget) to be approved from CBOG.</li> </ul> |                                                |             |

## F. General Expenses through Imprest

| Head of Depts/Division/School/Centre                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Upto Rs 0.15lacs **                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <ul style="list-style-type: none"> <li>• Financial Limit per month</li> <li>• Imprest amount to be used only for expenses listed out in Annexure 2</li> <li>• Imprest to be settled on monthly basis i.e. within 7 days of next month.</li> <li>• HODs are expected to practice due care in approving the general expenses in terms of adequacy and need.</li> <li>• Finance Officer to ensure that all expenses are supported by valid bills/supporting and duly approved from HODs.</li> </ul> |

## CONTRACTS

### G. Contracts related to Labour (e.g. General Repair & Maintenance of Building & other operating Assets, Housekeeping Services, Security Arrangements, Manpower Supply for contractual jobs, etc)

#### Within Budget

| Head of Depts/<br>/School/Centre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Registrar/ Deputy Director /<br>Head- Commercial | Director    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------|
| Full powers<br>(Indenting)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Upto Rs. 10.00 lacs                              | Full Powers |
| <ul style="list-style-type: none"> <li>• Indents to be approved by Director.</li> <li>• Financial Limit per contract per annum.</li> <li>• <b>Contract valuing Rs. 5.00 lacs &amp; above to be finalized through following process :</b> <ul style="list-style-type: none"> <li>– Invitation of Bids through Request For Quotations (RFQs) (floated through advertisement through University's website )</li> <li>– Shortlisting of contractor (L-1) to be done in the presence of Registrar / other officer(s) appointed by Director for the said purpose.</li> <li>– Final CSQ to be prepared based on negotiations &amp; approved through Director.</li> <li>– Order to be placed post legal vetting of draft document &amp; pre-audit.</li> <li>– Exception to above process to be approved through Director.</li> </ul> </li> <li>• Over-run in :           <ul style="list-style-type: none"> <li>– Budget allocated for the work /activity to be approved through CBOG.</li> <li>– Contract Value on account of increase in scope / BOQ in excess of 5% to be</li> </ul> </li> </ul> |                                                  |             |

approved through Director (with condition that overall work is completed within budget allocated)

## H. Administrative Contracts (e.g Hiring of vehicles, Lease Agreements with shop Keepers, Canteen, Courier, pest control, advertising contracts, Annual Maintenance Contracts of office equipment, etc)

### Within Budget

| Head of Depts/<br>/School/Centre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Registrar /Deputy Director<br>/ Head – Commercial | Director    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------|
| Full powers<br>(Indenting)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Upto Rs. 5.00 lacs                                | Full Powers |
| <ul style="list-style-type: none"> <li>• Indents to be approved by Director.</li> <li>• Financial Limit per contract per annum.</li> <li>• <b>Contract valuing Rs. 5.00 lacs &amp; above to be finalized through following process :</b> <ul style="list-style-type: none"> <li>– Invitation of Bids through Request For Quotations (RFQs) (floated through advertisement through University's website )</li> <li>– Shortlisting of contractor (L-1) to be done in the presence of Registrar / other officer(s) appointed by Director for the said purpose.</li> <li>– Final CSQ to be prepared based on negotiations &amp; approved through Director.</li> <li>– Order to be placed post legal vetting of draft document &amp; pre-audit.</li> <li>– Exception to above process to be approved through Director.</li> </ul> </li> </ul> |                                                   |             |

## I. Advisory and consulting agreements

### Within Budget

| Head of Deptt/ /School/Centre           | Director    |
|-----------------------------------------|-------------|
| Full powers<br>(Indenting)              | Full Powers |
| Financial Limit per contract per annum. |             |

**J. Scrap sale contracts (includes contracts entered for sale of items of every nature)**

| <b>Finance Officer &amp; Head Commercial</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Director</b> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Upto Rs. 5.00 lacs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Full powers     |
| <ul style="list-style-type: none"> <li>Following process to be followed for write off of assets / consumables as scrap :</li> </ul> <p><b>General of Scrap</b></p> <ul style="list-style-type: none"> <li>User Departments to prepare list of a unserviceable items of capital nature and seek approval from Director for write off.</li> <li>For other consumables (e.g. newspapers, magazines, <b>e-waste items</b>, other replaced items (sanitary, iron, plastic, etc), items would be segregated on monthly basis and shifted to Stores Department.</li> </ul> <p><b>Disposal of Scrap</b></p> <ul style="list-style-type: none"> <li>Commercial Department to invite bids through Request For Quotations (RFQs) (floated through advertisement through University's website )</li> <li>Shortlisting of contractor (H-1) bidder to be done in the presence of Registrar / other officer (s) appointed by Director for the said purpose.</li> <li>Final CSQ to be approved through Director and pre-audited.</li> <li>Collection for scrap sale to be collected in advance (through DD / cash (to be deposited directly in bank))</li> </ul> |                 |

**K. In case contract (referred above in point # G to J above) exceeds Budget**

| <b>CBOG</b> |
|-------------|
| Full Powers |

**L. Advances to Contractors/Suppliers**

**Secured by Bank Guarantee**

| <b>Registrar</b>                                                                                                                                                                                                                                                                          | <b>Head- Commercial</b> | <b>Deputy Director</b> | <b>Director</b> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------|-----------------|
| Full Powers                                                                                                                                                                                                                                                                               |                         |                        |                 |
| <ul style="list-style-type: none"> <li>Advances payment to be strictly as per the terms of P.O./W.O and above mentioned approvals</li> <li>All advance payment to be duly pre audited.</li> <li>Fresh / New advance could be given to same supplier only in case such payments</li> </ul> |                         |                        |                 |

are attributed / relates to separate PO/ WOs.

### **Without bank Guarantee**

| <b>Director</b>                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Full Powers                                                                                                                                                                                                                                                                                                 |
| <ul style="list-style-type: none"><li>• Advances payment to be strictly as per the terms of P.O./W.O</li><li>• All advance payment to be duly pre audited.</li><li>• Fresh / New advance could be given to same supplier only in case such payments are attributed / relates to separate PO/ WOs.</li></ul> |

### **M. Write Off /Adjustment of obsolete and unserviceable stores material**

| <b>Finance Officer &amp; Head Commercial</b>                                                                                                                                                                                                                                 | <b>Director</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Upto Rs. 5.00 lacs                                                                                                                                                                                                                                                           | Full powers     |
| <ul style="list-style-type: none"><li>• Subject to ratification from Chairman – BOG.</li><li>• Justification for write off to be documented and approved.</li><li>• Generation and disposal of such items to done as per guidelines outlined in Point No. J above.</li></ul> |                 |

### **N. Write off – Liquidated Damages**

| <b>Director</b>                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Full Powers and ratification from Chairman BOG.                                                                                                                                                                                                   |
| <ul style="list-style-type: none"><li>• Justification for waiver of liquidated damages to be documented based on application from contractor.</li><li>• Finance Officer to validate computation of liquidated damages to be waived off.</li></ul> |

### **O. Sale of surplus /obsolete stores material**

| <b>Director jointly with Finance Officer &amp; Head- Commercial</b>                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Full Powers                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"><li>• Subject to ratification from Chairman – BOG</li><li>• Sale(s) to be effected to highest bid/quote/tender.</li><li>• Comparative statement of bids to be pre audited.</li><li>• Generation and disposal of such items to done as per guidelines outlined in Point No. J above.</li></ul> |

---

---

**ACADEMIC MATTERS**

**P. Activities pertaining admissions of students, conducting examinations, evaluation and certification; to be governed by Academic Regulations of the University, 2012\*\* (subject to approval of Senate and ratification of BOG).**

\*\* Coverage would be revisited based on implementation of revised regulations.



---

---

|                          |
|--------------------------|
| <b>PERSONNEL MATTERS</b> |
|--------------------------|

**Q. All matters pertaining appointment of employees and related service rules to be governed in accordance with the Service Regulations of University, 2012.\*\***

\*\* Coverage would be revisited based on implementation of revised regulations.

**R. Compensation in case of On job Accidents – Beyond Statutory Amounts**

|             |
|-------------|
| <b>CBOG</b> |
| Full Powers |

**S. Employee benefits – reimbursement of Medical expenses or their survivors in excess of prescribed limits defined in Medical Insurance Cover**

|             |
|-------------|
| <b>CBOG</b> |
| Full Powers |

**T. Advances to employee for Travel, Official Expenses**

| <b>Registrar</b>                                                                                                                                                                                                                                                | <b>Deputy Director</b> | <b>Director</b>    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------|
| Upto Rs. 0.50 lac                                                                                                                                                                                                                                               | Upto Rs. 1.00 lacs     | Upto Rs. 2.50 lacs |
| <ul style="list-style-type: none"><li>• Travel bill to be submitted within 7 days of return.</li><li>• Advance to be settled on submission of travel bill.</li><li>• Fresh advance not to be given to an employee unless previous advance is settled.</li></ul> |                        |                    |

**U. Loan to employees**

|                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CBOG</b>                                                                                                                                                                                                                                                     |
| Full powers                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"><li>• Loan Agreement document to be filled by employee</li><li>• Recovery to be done in equal monthly instalments through salary.</li><li>• Supporting documents to be provided substantiating the purpose of loan.</li></ul> |

**List of Emergent Items**

**Convocation /Workshop Items**

1. Printing of Brochures/Invitation Cards
2. Bags, kits, other miscellaneous items
3. Rate Contracts related to infrastructure & conducting of these events

**Other Items**

1. Iron Items such as iron patti, angles, nails, bolts, nuts.
2. Bajri, Sand.
3. Paint Material
4. Medicines

**Positive List for usage of Imprest**

1. Expenses on refreshments incurred in ordinary course and for attending guests.
2. Purchase of Gifts i.e. flowers & confectionaries only.
3. Printing & binding of bulk documents for specific purpose(s).
4. Purchase of stationary items not available in Store (*excluding computer peripherals*).
5. Postage & stamps expenses.
6. General expenses related to maintenance & upkeep of security of campus (*excluding salary payment to personnel/guards hired for the purpose*)
7. Purchase of consumables required for running & maintenance of guest house.
8. Purchase of consumables essential items for maintenance of buildings & other infrastructure facilities (*based on pre-approved list of items*).
9. Reimbursement of local travel claims of employees involving nominal value (*i.e. Rs. 50/- per local visit as per university travel policy*).
10. General expenses involved in running of university vehicles e.g. - Toll Tax, parking, etc (*including expenses incurred on maintenance of vehicle in case of emergency en-route travel*).

*Note:*

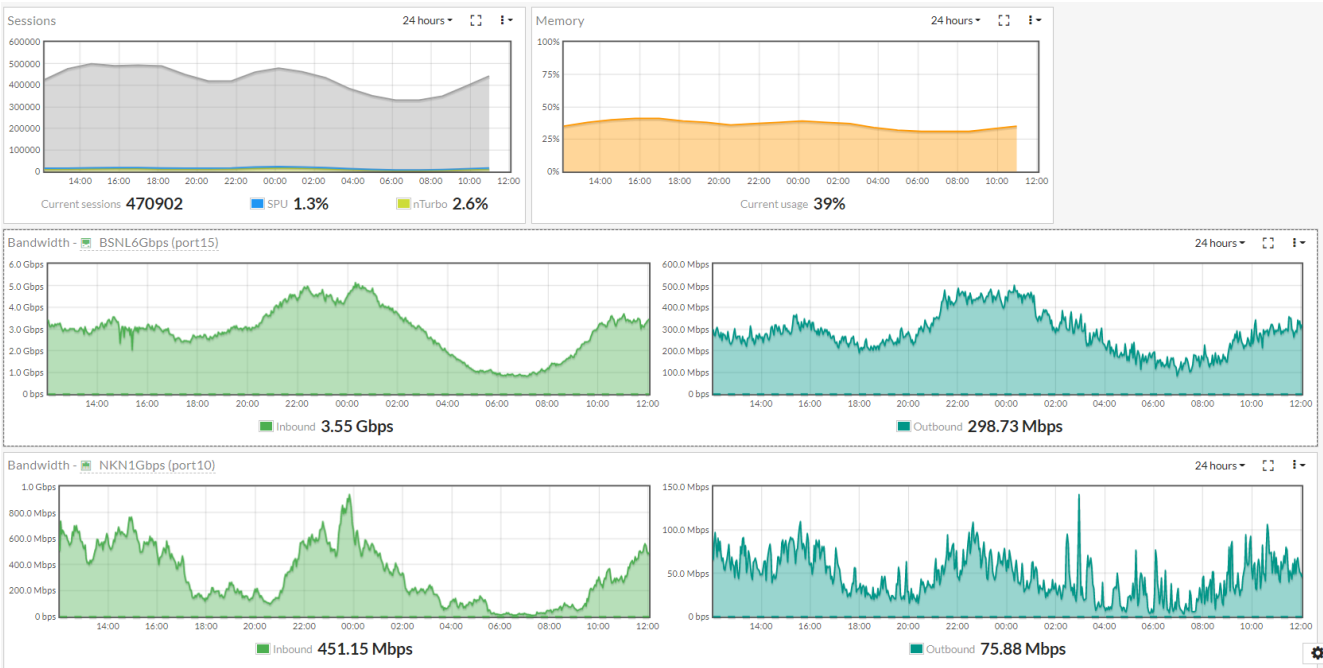
- Director shall approve the departments/ officials required to maintain petty imprest for their day to day activities.
- Finance Officer to propose financial limit of petty imprest based on historical data.
- Heads of Department holds the responsibility of approving expenses and ensuring that same are supported by appropriate & adequate bills/memos/invoices.
- Director has full authority to approve exceptions in usage of imprest.

\*\*\*\*\*

# INTERNET SERVICES

## Internet Bandwidth Provisioning

- Institute is connected to two ISP through leased lines:
  - **BSNL: 6 Gbps** Dedicated Leased Line
  - **NKN: 1 Gbps** under National Mission of Education through Information and Communication Technology (NMEICT) of National Knowledge Network.
- **200 Mbps ELL** (Extended Leased Line) Connectivity to Derabassi Campus.
- Internet access is provided on all endpoints in Institute.
- Internet Bandwidth Managed through Next Generation Firewall policies.
- Internet hosted services are deployed through both WAN gateways for availability and load balancing.



WAN Links Utilization -24 Hours

### WLAN Solution from Ruckus

- Ruckus Zone Director 3000 – 3
- Ruckus Virtual Smart Zone - 1
- Ruckus Smart Zone 100 – 2
- TP-Link Omada Site WLC– OC 300 -- 6
- Access Points Active: 2723 (Indoor/Outdoor)
- Dual Band Radio 2.4 GHz (B/G/N) and 5.0 GHz (A/N/AC)
- Maximum concurrently Active Users: 10500
- Separate user Data and AP Management Traffic
- Traffic in 24 Hr : 17 TB (WLAN users only)
- Features: Channel Fly, Client Load Balancing, L2/L3 Roaming, Mesh, WLAN QOS, Traffic Rate Limiting, 802.11e/WMM/802.11k

The details about Wi-Fi access-points presented in table 1.

Table 1: Location Wise Access Points

| Sr. No. | Building Name         | Number of Access Points |     |
|---------|-----------------------|-------------------------|-----|
|         |                       | Model                   | Qty |
| 1       | Hostel A              | Ruckus zf7363           | 36  |
| 2       | Hostel B              | TP-Link EAP245          | 192 |
| 3       | Hostel C              | Ruckus R610             | 66  |
| 4       | Hostel PG             | zf7372                  | 43  |
| 5       | Hostel E              | Ruckus 600              | 6   |
|         |                       | Ruckus zf7363           | 19  |
| 6       | Hostel G              | Ruckus zf7363           | 24  |
| 7       | Hostel H              | Ruckus zf7363           | 34  |
| 8       | Hostel I              | Ruckus zf7372           | 54  |
| 9       | Hostel J              | Ruckus R500             | 90  |
|         |                       | Ruckus R600             | 57  |
| 10      | Hostel K              | Ruckus R600             | 71  |
| 11      | Hostel L              | Ruckus R600             | 43  |
| 12      | Faculty Residence FRC | Ruckus R500             | 35  |
| 13      | Admin Blocks          | Ruckus R500             | 86  |
| 14      | Library               | Ruckus R610             | 44  |
| 15      | CORE                  | Ruckus R500             | 5   |
| 16      | SETP                  | Ruckus R500             | 3   |
| 17      | Residence             | Ruckus zf7782           | 3   |

|                    |                               |                   |             |
|--------------------|-------------------------------|-------------------|-------------|
| <b>18</b>          | Health Center                 | TP-Link EAP610    | 2           |
| <b>19</b>          | TAN                           | Ruckus zf7363     | 20          |
| <b>20</b>          | Auditorium                    | Ruckus zf7363     | 1           |
|                    |                               | Ruckus zf7372     | 1           |
|                    |                               | Ruckus R600       | 2           |
| <b>21</b>          | Canteen                       | Ruckus zf7372     | 2           |
| <b>22</b>          | Guest House                   | Ruckus R610       | 1           |
| <b>23</b>          | CMS                           | Ruckus R500       | 2           |
| <b>24</b>          | Old Poly                      | Ruckus zf7372     | 31          |
| <b>25</b>          | C-hall                        | Ruckus zf7362     | 1           |
|                    |                               | Ruckus r500       | 1           |
| <b>26</b>          | Antenna Research              | Ruckus zf7363     | 1           |
| <b>27</b>          | Registry                      | Ruckus R500       | 2           |
| <b>28</b>          | R&D Building                  | Ruckus R500       | 1           |
|                    |                               | Ruckus R600       | 1           |
| <b>29</b>          | Director Office               | Ruckus R610       | 1           |
| <b>30</b>          | Hostel-M                      | Ruckus R610       | 210         |
| <b>31</b>          | Hostel-N                      | Ruckus R610       | 130         |
| <b>32</b>          | LP&LT                         | Ruckus R610       | 57          |
| <b>33</b>          | CSED Block                    | Ruckus R610       | 93          |
| <b>34</b>          | Visitors Center               | Ruckus R610       | 11          |
| <b>35</b>          | New ECED Block                | Ruckus R610       | 16          |
| <b>36</b>          | Hostel O                      | Ruckus R610       | 182         |
| <b>37</b>          | Hostel Q                      | Ruckus R510       | 182         |
| <b>38</b>          | Hostel D                      | TP-Link EAP610    | 464         |
|                    |                               | TP- Link EAP660HD | 30          |
| <b>30</b>          | TSLAS                         | Ruckus R610       | 21          |
|                    |                               | TP-Link EAP610    | 8           |
|                    |                               | TP-Link EAP660HD  | 8           |
| <b>31</b>          | CEEMS lab                     | Ruckus R610       | 9           |
| <b>32</b>          | Derabassi Admin Block         | Ruckus R610       | 83          |
| <b>33</b>          | Derabassi Hostel & Residences | Ruckus zf7363     | 55          |
|                    |                               | TP-Link EAP610    | 161         |
|                    |                               | TP-Link EAP245    | 22          |
| <b>Total Count</b> |                               |                   | <b>2723</b> |

**System Overview**

System Name ZD3000  
 IP Address 172.31.1.1  
 MAC Address 00:22:7F:0C:36:50  
 Uptime 183d 22h 56m  
 Model ZD3100  
 Licensed APs 500  
 SN 320833000169  
 Version 9.8.3.0 build 58

**Most Recent User Activities**

| Date/Time | Severity | User Activities |
|-----------|----------|-----------------|
|-----------|----------|-----------------|

**Most Recent System Activities**

| Date/Time           | Severity | Activities                                                                                                                                                           |
|---------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2023/08/03 15:02:30 | High     | Lost contact with AP [Substation-6]                                                                                                                                  |
| 2023/08/03 14:46:41 | High     | Lost contact with AP [old poly]                                                                                                                                      |
| 2023/08/03 12:55:28 | High     | Lost contact with AP [Hostel PG]                                                                                                                                     |
| 2023/08/03 12:39:33 | High     | Lost contact with AP [24:c9:a1:32:8a:f0]                                                                                                                             |
| 2023/08/03 12:30:36 | High     | User [34:cf:f6:de:7e:75] fails authentication too many times in a row when joining WLAN [CONVO2022] at AP [Audi-2]. User [34:cf:f6:de:7e:75] system for [5 minutes]. |

**Usage Summary**

|                      | 1 hr | 24 hr |
|----------------------|------|-------|
| Max Concurrent Users | 3498 | 4085  |
| Bytes Transmitted    | 394G | 7.7T  |
| Average Signal (%)   | 35%  | 40%   |
| # of Rogue Devices   | 0    | 0     |

**Most Frequently Used Access Points**

**Devices Overview**

# of APs 423  
 # of Authorized Client Devices 3023  
 # of Total Client Devices 3025  
 # of Rogue Devices 0

**Support**

Company Ruckus Wireless, Inc  
 Warranty Info Product Registration  
 Online Support Activate Your Account  
 Ruckus Support Web  
 Support Documentation  
 Discussion Forums  
 Open a Support Case

Add Widgets

Fig1: WiFi Controller

**System Overview**

System Name ruckus3025  
 IP Address 172.31.1.2  
 MAC Address C0:8A:DE:3E:9F:86  
 Uptime 471d 36m  
 Model ZD3025  
 Licensed APs 400  
 SN 411208000609  
 Version 9.8.3.0 build 58

**Most Recent System Activities**

| Date/Time           | Severity | Activities                                                                                                                                                 |
|---------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2023/08/03 14:47:45 | High     | User [94:0c:6d:ca:4b:36] fails authentication too many times in a row when joining WLAN [TU] at AP [Admin Block] blocked from the system for [30 seconds]. |
| 2023/08/03 14:44:36 | Medium   | User [94:0c:6d:ca:4b:36] repeatedly fails authentication when joining WLAN [TU] at AP [Admin Block].                                                       |
| 2023/08/03 14:38:43 | High     | A Malicious Rogue [24:c9:a1:09:73:28] detection by AP [d4:68:4d:3e:8c:70] goes away                                                                        |
| 2023/08/03 14:15:19 | Medium   | AP [d4:68:4d:3e:82:80] joins with uptime [54] s and last disconnected reason [AP Restart : power cycle]                                                    |
| 2023/08/03 14:14:03 | Medium   | AP [d4:68:4d:3e:82:80] heartbeats lost                                                                                                                     |

**Most Frequently Used Access Points**

| MAC Address       | IP Address    | Description | Model | Clients |
|-------------------|---------------|-------------|-------|---------|
| d4:68:4d:3e:86:50 | 172.31.224.81 | Admin Block | r500  | 76      |
| d4:68:4d:3e:85:50 | 172.31.224.96 | Admin Block | r500  | 59      |
| d4:68:4d:3e:83:10 | 172.31.224.85 | Admin Block | r500  | 58      |
| f0:3e:90:35:95:50 | 172.16.12.139 | Hostel-K    | r600  | 43      |
| d4:68:4d:3e:9b:70 | 172.31.77.247 | Registry    | r500  | 36      |

**Most Recent User Activities**

| Date/Time | Severity | User Activities |
|-----------|----------|-----------------|
|-----------|----------|-----------------|

**Devices Overview**

# of APs 216  
 # of Authorized Client Devices 1661  
 # of Total Client Devices 1662  
 # of Rogue Devices 45

**Usage Summary**

|                      | 1 hr | 24 hr |
|----------------------|------|-------|
| Max Concurrent Users | 1685 | 1824  |
| Bytes Transmitted    | 137G | 2.5T  |
| Average Signal (%)   | 47%  | 47%   |
| # of Rogue Devices   | 45   | 98    |

Add Widgets

Fig 2: WiFi Controller 2

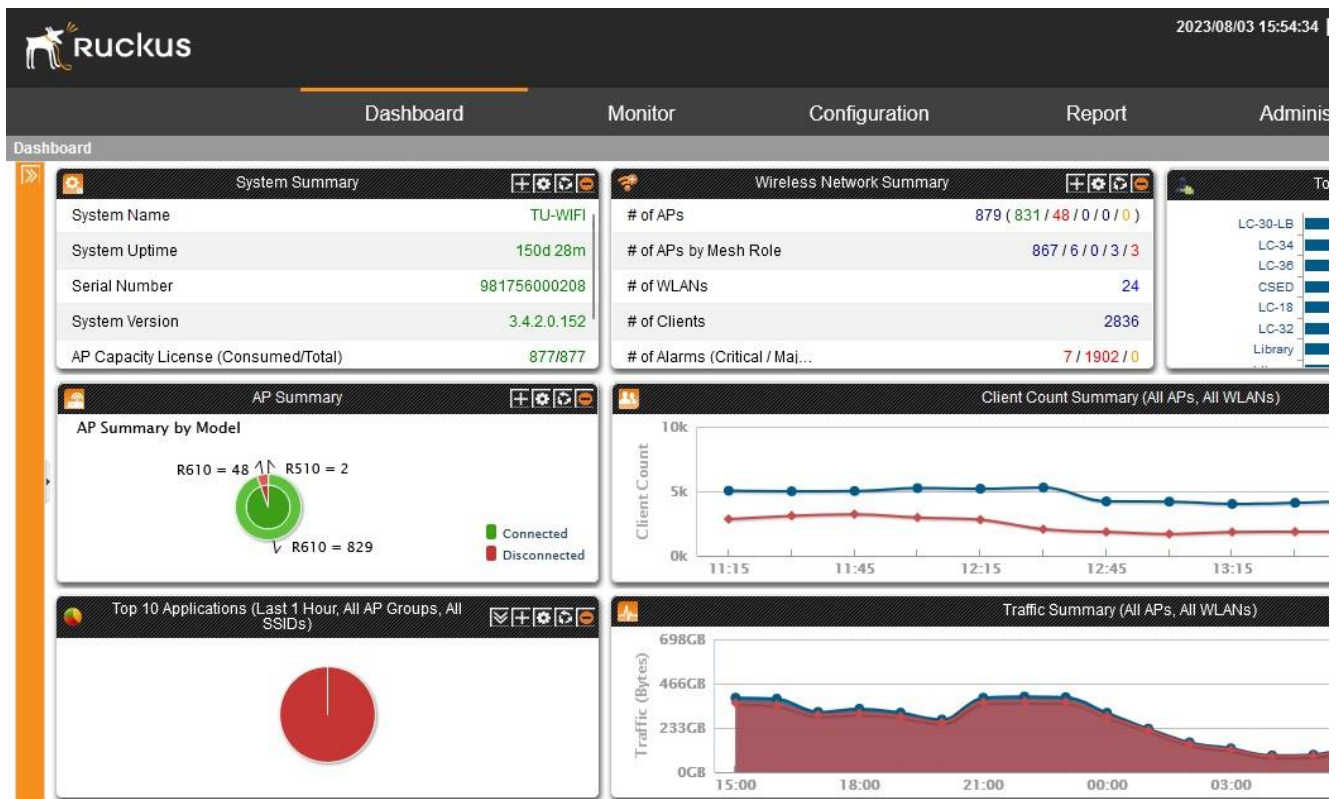


Fig 3: WiFi Controller 3

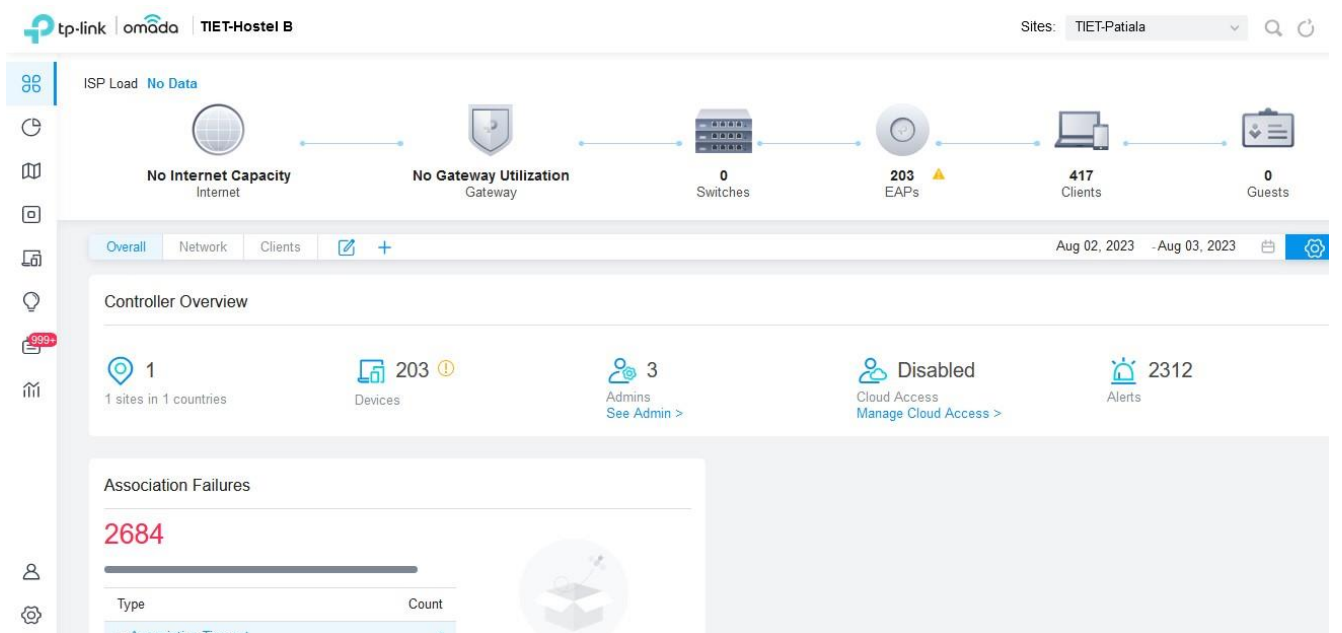


Fig 4: WiFi Controller



**Ruckus WIRELESS ZoneDirector - ruckus** 2023/08/03 16:36:00

Dashboard Monitor Configure Administer

**Smart Redundancy**  
Smart Redundancy is disabled. To configure Smart Redundancy, click here

**System Overview**

|              |                    |
|--------------|--------------------|
| System Name  | ruckus             |
| IP Address   | 172.31.200.51      |
| MAC Address  | C0:8A:DE:3E:94:0C  |
| Uptime       | 24d 1h             |
| Model        | ZD3025             |
| Licensed APs | 100                |
| S/N          | 341208000110       |
| Version      | 9.12.3.0 build 136 |

**Devices Overview**

|                                |     |
|--------------------------------|-----|
| # of APs                       | 45  |
| # of Authorized Client Devices | 39  |
| # of Total Client Devices      | 40  |
| # of Rogue Devices             | 150 |

**Usage Summary**

|                      |      |       |
|----------------------|------|-------|
|                      | 1 hr | 24 hr |
| Max Concurrent Users | 48   | 66    |
| Bytes Transmitted    | 955M | 179G  |
| Average Signal (%)   | 30%  | 45%   |
| # of Rogue Devices   | 150  | 326   |

**Most Recent User Activities**

| Date/Time           | Severity | User Activities                                                                                                      |
|---------------------|----------|----------------------------------------------------------------------------------------------------------------------|
| 2023/08/03 16:35:46 | Low      | AP[Boys Hostel(R.No3)] radio [11g/n] detects User[0a:cb:ea:04:d4:c7] in WLAN[LMTSOM/LMTSOM] roams from AP[GH-212 Ou  |
| 2023/08/03 16:35:46 | Low      | AP[GH-212 Outside] radio [11g/n] detects User[Dac:cb:ea:04:d4:c7] in WLAN[LMTSOM/LMTSOM] roams out to AP[Boys Hostel |
| 2023/08/03 16:35:44 | Low      | AP[Boys Hostel(R.No2)] radio [11g/n] detects User[8e:62:72:29:77:05] in WLAN[LMTSOM/LMTSOM] roams from AP[GH- room r |
| 2023/08/03 16:35:44 | Low      | AP[GH- room no 305 o] radio [11g/n] detects User[8e:62:72:29:77:05] in WLAN[LMTSOM/LMTSOM] roams out to AP[Boys Hos  |
| 2023/08/03 16:35:44 | Low      | User[72:b6:22:06:af:f2] leave WLAN[LMTSOM/LMTSOM] at AP[GH- room no 309 o] with Session Time[61.16 sec] RX Bytes[330 |

**Most Recent System Activities**

| Date/Time           | Severity | Activities                                                                                                 |
|---------------------|----------|------------------------------------------------------------------------------------------------------------|
| 2023/08/03 16:35:34 | High     | A Malicious Rogue[58:fb:96:63:c6:e8] detection by AP[8c:0c:90:04:15:b0] goes away                          |
| 2023/08/03 16:34:50 | High     | A Malicious Rogue[58:fb:96:63:c0:a8] detection by AP[8c:0c:90:00:ea:d0] goes away                          |
| 2023/08/03 16:33:44 | High     | A Malicious Rogue[84:23:88:34:40:28] detection by AP[8c:0c:90:01:2c:90] goes away                          |
| 2023/08/03 16:33:36 | High     | A Malicious Rogue[58:fb:96:63:c6:e8] detection by AP[8c:0c:90:00:4c:c0] goes away                          |
| 2023/08/03 16:33:11 | Low      | AP[Girls Hostel R.No] detects interference on radio [11g/n] and switches from channel [9] to channel [13]. |

**Most Frequently Used Access Points**

| MAC Address       | IP Address     | Description                     | Model  | Clients |
|-------------------|----------------|---------------------------------|--------|---------|
| 8c:0c:90:06:dc:d0 | 172.31.200.79  | Boys Hostel(R.No203) FirstFloor | zF7363 | 9       |
| 8c:0c:90:00:f4:20 | 172.31.200.134 | GH-205                          | zF7363 | 3       |
| 8c:0c:90:00:4c:60 | 172.31.200.93  | GH-212 Outside                  | zF7363 | 3       |
| 8c:0c:90:01:2c:90 | 172.31.200.74  | Boys Hostel R.No 105 (GF)       | zF7363 | 3       |
| 8c:0c:90:01:2e:d0 | 172.31.200.102 | Girls Hostel R.No. 319 (2nd F)  | zF7363 | 2       |

**Support**

Add Widgets

Fig 5: WiFi Controller 5

tp-link omada NEW-Omada Controller Organization: Global View

**Controller Overview**

|                        |                     |                             |                             |                                           |                                 |                    |
|------------------------|---------------------|-----------------------------|-----------------------------|-------------------------------------------|---------------------------------|--------------------|
| Connected Cloud Access | 1 Site              | 0 Gateways                  | 0 Switches                  | 161 APs                                   | 120 Clients                     | 472 Alerts         |
| Manage Cloud Access >  | 1 Site in 1 Country | Connected 0, Disconnected 0 | Connected 0, Disconnected 0 | Connected 160, Disconnected 1, Isolated 0 | Wired 0, Wireless 120, Guests 0 | Global 0, Site 472 |

**Site List**

| NAME    | COUNTRY/REGION | ALERTS | GATEWAY | CONNECTED SWITCHES | DISCONNECTED SWITCHES | CONNECTED APs | DISCONNECTED APs | ISOLATED APs | USERS | GUESTS | ADDRESS | ACTION |
|---------|----------------|--------|---------|--------------------|-----------------------|---------------|------------------|--------------|-------|--------|---------|--------|
| Default | India          | 472    |         | 0                  | 0                     | 160           | 1                | 0            | 0     | 120    |         |        |

Showing 1-1 of 1 records < 1 > 10 / page Go To page: Go

Fig 6: WiFi Controller 6

Dashboard

System

Access Points

Switches

Wireless LANs

Clients

Firewall

Services & Profiles

Report

Troubleshooting

Wire

✓ No outstanding alarms

### Health

1 Cluster **1** **0** **0** 182 AP **181** **0** **1** Client **237** System

AF

Google Maps are not working due to an API key problem. If this problem persists, you may need to add a custom Google Maps feature is not available, you may pick an option below:

- [Switch to Group Topology View](#)
- [Configure the Google API Key](#)

Fig 6: WiFi Controller 6

## Annexure - CITM C

### Next Generation Firewall

- Fortigate 2200E – 1 Nos
- Fortiauthenticator – 2000E
- Log Analyser -300F
- Maximum concurrent user LIVE: 11500
- 24 hrs. Traffic: 20 TB
- 158 Gbps firewall throughput
- Interfaces: 12 GbE Ports+ 18x 10Gb/25Gb SFP+ 4\*40QSFP Slots
- Application and Web filtering
- User identity and Group Identity Management
- Bandwidth Management
- IPS, Gateway Level Antivirus and Anti Spyware

### IP Camera Surveillance:

CITM provide campus wide IP surveillance. The details are as follows:  
Location Wise CCTV IP Cameras

| Sr. No. | Building Name | Network Video Recorder IP Address | Number of Cameras |
|---------|---------------|-----------------------------------|-------------------|
| 1       | Hostel A      | 172.31.132.106                    | 10                |
| 2       | Hostel B      | 172.16.128.220                    | 28                |
| 3       | Hostel C      | 172.31.132.105                    | 19                |
| 4       | Hostel PG     | 172.31.132.102                    | 8                 |
| 5       | Hostel E      | 172.31.132.111                    | 5                 |
| 6       | Hostel G      | 172.31.132.111                    | 4                 |
| 7       | Hostel H      | 172.16.192.200                    | 21                |
| 8       | Hostel I      | 172.31.132.103                    | 4                 |
| 9       | Hostel J      | 172.31.132.112,113,114,117,118    | 66                |
| 10      | Hostel K      | 172.16.8.79                       | 12                |
| 11      | Hostel L      | 172.16.8.80                       | 12                |
| 12      | Admin Blocks  | 172.31.132.108-109-110            | 60                |
| 13      | Library       | 172.31.132.107                    | 16                |
| 14      | Health Centre | 172.31.60.15                      | 3                 |
| 15      | Guest House   | 172.31.60.15                      | 3                 |
| 16      | G-Block       | 172.31.60.15                      | 8                 |
| 17      | CoS Complex   | 172.31.47.221                     | 14                |
| 18      | Hostel M      | 172.16.32.35                      | 22                |
| 19      | Hostel N      | 172.16.32.35                      | 1                 |
| 20      | TIFAC-Core    | 172.31.12.15                      | 8                 |
| 21      | Hostel O      | 172.16.49.1-15                    | 46                |
| 22      | Hostel Q      | 172.16.144.230                    | 11                |

---

|               |                     |                 |     |
|---------------|---------------------|-----------------|-----|
| <b>23</b>     | CMS area Store      | 172.31.144.13   | 5   |
| <b>24</b>     | Hostel M            | 172.16.32.35-36 | 58  |
| <b>25</b>     | Admin Parking areas | 172.31.132.99   | 10  |
| <b>26</b>     | CSED Block          | 172.16.95.240   | 11  |
| <b>27</b>     | Residence area      | 172.31.60.15    | 5   |
| Total Cameras |                     |                 | 470 |