

# **Proposals for the Post of Vice President, Technology Students' Gymkhana**

**Sangekar Rajas Madhav  
Roll Number: 23EX10031**



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# **Proposal 1:**

## **Strengthening Placement and Internship Ecosystem through Departmental Integration and Centralised Career Infrastructure**

### **1.1 Overview**

This proposal aims to transform the placement and internship ecosystem at IIT Kharagpur by addressing gaps in department-level engagement, fragmented access to opportunities, and limited curriculum flexibility for industry exposure.

It introduces a multi-layered approach involving department-level placement cells, a centralised career opportunities platform, and curriculum reforms to facilitate longer, more meaningful internships.

Together, these initiatives aim to create a more structured, transparent, and industry-aligned placement ecosystem for undergraduate (UG), postgraduate (PG), and research scholar (RS) students.

### **1.2 Current Problem**

While the Career Development Centre (CDC) plays a central role in placements, there exists a disconnect between departments, students, and available opportunities, particularly in core sectors. This can be majorly divided into the following segments:

1. Lack of Department-Level Placement Focus: Core companies require targeted engagement, which is currently limited.
2. Fragmented Information Channels: Opportunities from alumni, professors, and PRC mails are scattered and often missed.
3. Limited Industry Exposure: Restrictive academic structures prevent students from pursuing 6-month internships.
4. Underdeveloped PG & RS Placement Support: Lack of structured and targeted placement interventions for higher degree and research students.

### **1.3 Objective**

#### **1.3.1 Immediate Objectives**

- Strengthen core placements through department-level systems.
- Create a centralised career platform to unify disparate information channels.
- Improve accessibility to off-campus and professor-led internship opportunities.

#### **1.3.2 Long-term Objectives**

- Enable flexible academic structures across all departments for 6-month internships.

- Ensure inclusive and structured placement support for UG, PG, and RS students.
- Foster a stronger departmental identity and accountability in placement success.

## 1.4 Methodology

### 1.4.1. Department-Wise Placement Cells

Establish a dedicated placement cell in each department to coordinate closely with the CDC.

- **Committee Structure:**
  - Training & Placement (TnP) Coordinator (Professor-in-Charge).
  - UG Department Representative.
  - PG Representative.
  - Women Representative.
- **Functioning:**
  - Target core companies specific to departmental domains.
  - Conduct domain-specific preparation sessions and mock interviews.
  - Facilitate structured company outreach and onboarding.

### 1.4.2. Centralised Career Opportunities Platform

Development of a unified digital platform to act as a single point of reference for all career-related leads.

- **Key Features:**
  - **Integration:** Consolidates alum opportunities, PRC mail listings, professor-led projects, and off-campus internships/jobs.
  - **Real-time Updates:** Instant notifications for new listings.
  - **Departmental Filtering:** Easy tracking and accessibility based on specific academic backgrounds.

### 1.4.3. Curriculum Flexibility for Internships (SAPP/SAIP Reform)

Integration and restructuring of SAPP and SAIP programs to enable 6-month internships.

- **Proposed Solution:**
  - Modification of 7th- and 8th-semester coursework to address labs or core depth courses that currently restrict flexibility.
  - Convert core depth courses into depth electives offered in earlier semesters.

- Allow academic restructuring to support 6-month internships without delaying graduation.

#### Departmental Reform Categorisation:

Category	Departments	Required Action
<b>Major Changes Required</b>	Aerospace (8th Sem), Architecture (9th/10th), Biotech (8th), ECE (8th), GG (8th), Economics (8th), Industrial (8th), MnC (8th), Mechanical (8th), Mining (8th), Ocean (8th).	Move 8th-semester labs and core depth courses to earlier semesters.
<b>Flexible (No Major Changes)</b>	Agri, AI, Chemical, Chemistry, Civil, CS, Electrical, Physics, Metallurgy.	Existing coursework already supports flexibility; focus on outreach.

## 1.5 Impact on Students

- **Improved Core Placement Outcomes:** Department-level focus increases recruiter engagement and success in core sectors.
- **Greater Industry Exposure:** 6-month internships significantly enhance practical learning and employability.
- **Equal Opportunity Access:** A centralised platform eliminates information gaps and ensures all students see relevant opportunities.
- **Inclusive Growth:** Targeted interventions provide benefits across UG, PG, and RS cohorts.

## 1.6 Background and Groundwork

- **CDC Consultations:** Discussions with the CDC Chairman acknowledged structural gaps and emphasised the need for department-level integration.
- **Proven Success (Chemical Engineering):** Successfully onboarded core companies like BPCL and HPCL for internships through a departmental committee (UG/PG/Women reps and TnP Professor).
- **Existing Models (Biotech & Cryogenic):** Similar department-wide committees comprising reps, PG students, and TnP professors have already been established.
- **Gap Analysis:** Student feedback consistently reported difficulty in accessing opportunities and constraints due to rigid curriculum structures.

## **Stakeholders Involved**

- **Students (UG, PG, RS):** Primary beneficiaries.
- **Career Development Centre (CDC):** Central coordination and logistics.
- **Department Faculty & TnP Coordinators:** Execution, outreach, and academic scheduling.
- **ERP & IT Teams:** Digital platform development and maintenance.
- **Institute Administration:** Policy approvals for curriculum restructuring.

## **Proposal 2:**

# **Enhancing PG & RS Career Outcomes through Structured Mentorship, Placement Integration, and Academic & Research Reforms**

## **2.1 Overview**

This proposal aims to holistically improve the academic experience, career readiness, and placement outcomes of Postgraduate (PG) students and Research Scholars (RS) at IIT Kharagpur.

This proposal introduces a comprehensive, timeline-based Alumni Mentorship Program driven by key academic reforms and structured placement integration.

These measures aim to create a well-rounded, industry-aligned and student-centric PG & RS ecosystem for stronger employability and job prospects.

## **2.2 Current Problem**

While PG and RS students possess strong technical and research capabilities, there exist multiple structural shortcomings in the present system. This can be majorly divided into the following segments:

1. There is a lack of any continuous guidance mechanism in translating these skills into successful career outcomes.
2. Lack of proactive industry-academia collaboration centric to the interests of Postgraduate (PG) students and Research Scholars (RS).
3. Limited alumni engagement initiatives and events to harness the existing placement ecosystem.
4. Lack of an end-to-end integrated and comprehensive feedback loop for Research Scholars on faculty guidance.
5. Limited community engagement platforms for Research Scholars students.

## **2.3 Objective**

### **2.3.1 Immediate Objectives**

- Establish a structured mentorship roadmap up to the final placement process.
- Create a well-defined feedback mechanism for students.
- Improve internship and placement outcomes for PG & RS students.

### **2.3.2 Long-Term Objectives**

- Introduce an accountability and transparency framework in research guidance.

- Strengthen alumni-student-industry collaboration.
- Foster a collaborative and engaging placement-friendly research environment.

## 2.4 Methodology

### 2.4.1. Structured Alumni Mentorship Program (PG-Focused)

A phase-wise mentorship framework will be implemented as follows:

Timeline	Intervention	Details
<b>1st Month (PG Enrollment)</b>	Alumni Onboarding	Allocation of alumni mentors based on department and career profiles
<b>Semester 1 (Initial Phase)</b>	Technical & Soft Skills Development	Training for on-campus internships; focus on domain skills and soft skills
<b>End of Semester 1</b>	CV Building & Portal Guidance	Structured CV workshops; guidance on CV building and profile optimisation
<b>Semester 2</b>	On-Campus Internship Preparation	Company-specific preparation, mock interviews, and mentorship support
<b>Post Internship Phase</b>	Off-Campus Internship Support	Alumni referrals and targeted guidance for interested candidates
<b>Semester 3 (Early Phase)</b>	MTP1 & MTP2 Guidance	Selection of projects aligned with career goals and industry relevance
<b>End of Semester 3</b>	Placement Preparation	End-to-end placement strategy, mock interviews, and profile refinement

### 2.4.2. Alumni Engagement & Recognition Framework

To ensure sustained alumni participation:

- **Recognition Initiatives:**
  - Annual awards for top contributing alumni mentors
  - Certificates and formal acknowledgements
- **Campus Engagement:**
  - Organised campus visits, interaction sessions, and networking events
  - Alumni-led talks and mentorship meets
- **Ecosystem Building:**
  - Creation of a formal alumni mentorship network under the Technology Students Gymkhana

### 2.4.3. Academic and Research Reforms (RS-Focused)

#### a. Feedback Mechanism for Faculty Guidance

- Introduction of a formal feedback system where RS students can evaluate:
  - Guidance quality
  - Availability and support
- Ensuring confidentiality and structured review mechanisms.

#### b. Research Evaluation Committee

- Formation of a committee to periodically evaluate research progress.
- Responsibilities:
  - Monitor milestones
  - Ensure accountability
  - Improve research quality and direction

#### c. Zero-Credit Course: EAA (Extra Academic Activity)

- Introduction of a zero-credit course: EAA (Extra Academic Activity) aimed at recognising and promoting student participation beyond academics.
- **Key Features:**
  - Provides formal recognition for participation in:
    - Inter IIT events
    - General Championship (GC) activities
    - Technical, cultural, and sports contributions
  - Designed with flexible hours, allowing students—especially PG and RS—to balance research commitments with extracurricular involvement.
  - Encourages students to showcase their talents in non-academic domains without academic penalty.
- Implementation Approach:
  - Departments will allow enrollment in EAA with minimal administrative overhead.
  - Activities will be tracked and validated through TSG and relevant councils.
  - Certification or transcript to ensure **tangible recognition of efforts**

## 2.5 Impact on Students

- End-to-End Career Support: Continuous mentorship ensures no gaps in preparation.
- Improved Internship & Placement Outcomes: Structured interventions increase success rates.
- Stronger Alumni Network Integration: Direct access to mentorship, referrals, and industry insights.
- Improved Research Quality & Accountability: Evaluation and feedback systems enhance academic output.
- Enhanced Student Well-being: Community initiatives like RSPL reduce isolation.
- Better Decision-Making: MTP and research aligned with long-term career goals.

## 2.6 Background and Groundwork

- **Student Feedback:** PG and RS students highlighted the absence of a continuous and structured mentorship system, especially for internships and placements.
- **Alumni Interactions:** Alumni expressed willingness to mentor students if provided with a formal and organised framework.
- **Faculty Discussions:** Professors emphasised the need for better research monitoring and structured evaluation mechanisms.
- **Gap Analysis:** The current system is fragmented, with isolated efforts rather than a continuous pipeline from admission to placement.

These insights strongly validate the necessity of a structured, integrated PG & RS support system.

## **Stakeholders Involved**

- **PG Students & Research Scholars:** Primary beneficiaries.
- **Alumni Network:** Mentors and industry connectors.
- **Career Development Centre (CDC):** Placement coordination.
- **Department Faculty:** Academic and research guidance.
- **Technology Students' Gymkhana (TSG):** Implementation and execution.
- **Institute Administration:** Policy approvals and structural support.

## **Proposal 3:**

# **Smart Mess Management System for Efficient Consumption, Transparency, and Hygiene**

## **3.1 Overview**

This proposal aims to improve the efficiency, transparency, and hygiene standards of the mess system at IIT Kharagpur through a structured, technology-driven approach.

The current mess ecosystem faces challenges in accurately estimating food demand, tracking actual consumption, and maintaining consistent hygiene.

This initiative introduces a weekly meal pre-declaration system, smart ID-based attendance tracking, digital monitoring of excess food, and specific infrastructure upgrades.

These measures aim to create a data-driven, accountable, and student-friendly mess system that optimises resource utilisation while enhancing the overall dining experience.

## **3.2 Current Problem**

The existing mess system faces several structural and operational challenges that lead to inefficiencies:

- **Inaccurate Demand Estimation:** A lack of reliable data on student meal participation results in significant food waste.
- **Absence of Attendance Tracking:** There is no mechanism to record actual attendance during meals, making consumption data purely speculative.
- **Unmonitored Extra Consumption:** The absence of a structured system to log "extra" food items leads to operational leaks and a lack of transparency.
- **Hygiene & Infrastructure Gaps:** Issues such as serving food on wet plates negatively affect cleanliness and the overall user experience.
- **Technological Underutilization:** Limited use of real-time digital monitoring for planning and execution.

## **3.3 Objective**

### **3.3.1 Immediate Objectives**

- Enable accurate prediction of food demand through a pre-declaration system.
- Introduce attendance-based tracking of mess consumption via Smart IDs.
- Ensure absolute transparency in the usage and billing of extra food items.
- Standardise hygiene through modernised drying infrastructure.

### 3.3.2 Long-term Objectives

- Establish a fully data-driven mess management ecosystem.
- Drastically reduce food wastage and operational overhead.
- Promote responsible and sustainable consumption behaviour among students.

## 3.4 Methodology

### 3.4.1 Weekly Meal Pre-Declaration System

Students will provide advance notice of their meal participation for the upcoming week via a digital platform (ERP/App-based).

- **Purpose:** Allows mess management to plan procurement and preparation with precision.
- **Impact:** Directly reduces overproduction and prevents avoidable wastage.

### 3.4.2 Smart ID-Based Attendance Tracking

Implementation of student Smart ID card scanning at the entry of every mess facility.

- **Benefits:** Records accurate consumption data, eliminates "assumed" participation numbers, and creates a reliable dataset for future planning.

### 3.4.3 Digital Tracking of Extra Food Consumption

A system where "extras" taken by students are logged digitally and integrated with the Smart ID system.

- **Visibility:** Real-time consumption data visible to students through a personal portal.
- **Control:** Ensures individual transparency and provides mess management with data for inventory optimisation.

### 3.4.4 Infrastructure Upgradation (Hygiene)

Installation of industrial-grade plate drying systems (dryers) across all mess facilities.

- **Standard:** Ensures plates are completely dry and sterilised before usage.
- **Maintenance:** Implementation of strict vendor protocols for continuous operation and periodic auditing.

## 3.5 Impact on Students

- **Reduced Wastage:** Aligning preparation with actual demand ensures fresher food and less environmental impact.
- **Increased Transparency:** Real-time tracking of participation and "extra" charges prevents billing disputes.

- **Improved Hygiene:** Guaranteed clean and dry utensils significantly enhance the health standards of the dining experience.
- **Fair Resource Distribution:** A data-driven system ensures equitable access for all residents.

## 3.6 Background and Groundwork

- **Student Feedback:** Residents have consistently flagged concerns regarding food waste and the hygiene of damp utensils.
- **Successful Pilot Models:** Certain halls have already successfully piloted card-based tracking for extras and introduced plate-drying systems with positive results.
- **Administrative Intent:** Discussions with mess management teams highlight a strong internal demand for better prediction systems to optimise high-volume food preparation.
- **Gap Analysis:** The current fragmented system lacks a continuous technology pipeline from entry tracking to waste monitoring.

## Stakeholders Involved

- **Students:** Primary users and providers of pre-declaration data.
- **Mess Management Team:** Responsible for data-driven planning and kitchen execution.
- **Hall Management Council (HMC):** Overall coordination and policy oversight.
- **ERP & IT Teams:** Development of the pre-declaration app and ID-scanning infrastructure.
- **Institute Administration:** Infrastructure funding and policy approvals.

## **Proposal 4:**

# **Fostering Student Welfare Ecosystem through Accessible Healthcare, Sanitation, and Mobility Infrastructure**

## **4.1 Overview**

This proposal aims to enhance the overall quality of student life at IIT Kharagpur by addressing critical gaps in healthcare accessibility, sanitation infrastructure, and campus mobility.

Despite a large and diverse student population, several essential welfare services remain insufficient or fragmented.

This initiative introduces a set of integrated solutions, including the installation of automated sanitary pad vending machines, the development of hygienic public washrooms, the optimisation of campus transport systems, and a comprehensive digital overhaul of the institute's medical system (iMediX).

Together, these measures aim to create a more inclusive, accessible, and student-centric campus ecosystem.

## **4.2 Current Problem**

While the institute provides foundational welfare services, there are multiple structural and operational shortcomings that impact the daily lives of students. These can be majorly divided into the following segments:

- **Limited Access to Menstrual Hygiene Products:** Availability of sanitary products is inconsistent and often inaccessible during emergencies.
- **Inadequate Public Sanitation Facilities:** High-footfall academic and common areas lack clean, well-maintained, and modern washroom facilities.
- **Inefficient Campus Transport System:** Students face significant inconvenience due to the lack of real-time updates and limited connectivity during peak commute periods.
- **Restricted Medical Services:** The current iMediX system lacks digital integration; furthermore, essential services like blood tests are restricted to a narrow window (8-10 AM), clashing with academic commitments.

## **4.3 Objective**

### **4.3.1 Immediate Objectives**

- Ensure round-the-clock access to menstrual hygiene products through automated vending.
- Improve sanitation standards across key campus hotspots through structured maintenance.
- Extend diagnostic service hours to ensure healthcare is accessible without disrupting academic schedules.

### 4.3.2 Long-Term Objectives

- Digitise the entire healthcare journey, from appointments to report delivery.
- Provide an efficient, transparent, and digitally-tracked transport system.
- Foster a campus environment that prioritises inclusivity and student well-being through modernised infrastructure.

## 4.4 Methodology

### 4.4.1. Menstrual Hygiene Infrastructure (Sanitary Pad Vending Machines)

A phase-wise installation of vending machines will be implemented to ensure total campus coverage.

- **Implementation:** Partnerships with organisations like the ISCI Foundation to facilitate machine procurement starting FY 2026-2027.
- **Monitoring:** Regular restocking via vendor partnerships and hall-level monitoring systems.

### 4.4.2. Public Sanitation & Mobility Optimization

- **Hygienic Washrooms:** Identification of high-footfall hotspots for renovation with scheduled maintenance contracts and a digital complaint tracking system.
- **Transport Overhaul:**
  - Introduction of pooled bus services to railway stations and airports during vacations.
  - Development of a centralised digital platform for real-time tracking, route updates, and notifications.

### 4.4.3. Comprehensive Overhaul of iMediX & Medical Accessibility

- **Digital Transformation:** Implementation of online appointment booking, digital prescriptions, and real-time doctor availability tracking integrated with ERP.
- **Diagnostic Flexibility:** Extension of blood test hours beyond the 8-10 AM window and introduction of flexible time slots to reduce crowding.
- **Digital Report Delivery:** Automated delivery of medical records and blood test reports via WhatsApp and digital platforms to reduce physical visits.

## 4.5 Impact on Students

- **Inclusive Campus Environment:** Guaranteed access to essential hygiene products across all academic and residential zones.
- **Better Health & Sanitation:** Modernised facilities with clear accountability through digital audits and complaints.

- **Time Efficiency:** Drastic reduction in waiting times for medical services and transport through real-time digital tracking.
- **Improved Healthcare Experience:** Students can manage diagnostics and records without disrupting labs or classes.

## 4.6 Background and Groundwork

- **Student Feedback:** Reports highlight consistent issues with sanitation, transport inefficiencies, and the clash between class schedules and the limited blood test window.
- **Medical Consultation:** Discussions held with **Prof. Indranath Banerjee (HOD, BC Roy Technology Hospital)** regarding the technical integration of iMediX and the expansion of blood test service hours.
- **Women's Welfare Advocacy:** Direct inputs and requirements gathered from **Manya S Chopra (Women Representative 2025-2026)** and **Swetapadma Kar (Women Representative 2024-2025)** regarding the strategic placement and capacity of sanitary pad vending machines.
- **Transport Logistics:** Consultation conducted with **Yamuna Prasad (Junior Executive, Transport Section)** regarding the feasibility of transport optimisation and digital tracking integration.
- **Collaboration:** The ISCI Foundation is ready to provide vending machines, with implementation planned for the start of FY 2026-2027.
- **Benchmarking:** Adoption of extended healthcare hours and digital report systems in other institutes validates the feasibility of these reforms.

## Stakeholders Involved

- **Students:** Primary beneficiaries and users.
- **Institute Administration:** Policy approval and core funding.
- **BC Roy Hospital & Medical Unit:** Execution of healthcare and diagnostic reforms.
- **Hall Management Council (HMC):** Implementation and monitoring at the hall level.
- **ERP & IT Teams:** Development of tracking and medical digital systems.
- **External Vendors (e.g., ISCI Foundation):** Infrastructure setup and maintenance support.

## **Proposal 5:**

# **Strengthening Campus Maintenance through Accountability, Transparency, and Infrastructure Upgradation**

## **5.1 Overview**

This proposal aims to streamline and strengthen the maintenance ecosystem at IIT Kharagpur by addressing inefficiencies in issue resolution, a lack of financial transparency, and gaps in infrastructure upkeep.

Despite the involvement of multiple stakeholders, the absence of a centralised coordination mechanism often leads to delays and unresolved complaints.

This initiative introduces a centralised maintenance coordination committee, enhanced financial transparency mechanisms, and critical infrastructure reforms to build a more responsive and student-centric framework.

## **5.2 Current Problem**

The existing maintenance system at the institute suffers from several structural shortcomings that impact the daily student experience:

- **Water Supply and Quality Concerns:** Repeated complaints regarding unclean drinking water and poorly maintained water coolers raise significant health concerns.
- **Outdated Recreational Infrastructure:** Essential student spaces, such as the "F127 Room," remain underutilised due to a lack of modern facilities.
- **Fragmented Maintenance Coordination:** The lack of a unified channel between Hall councils, Wardens, and Institute authorities leads to delayed resolutions.
- **Limited Financial Transparency:** Students currently have minimal visibility into the allocation and utilisation of student-driven funds.

## **5.3 Objective**

### **5.3.1 Immediate Objectives**

- Implement rigorous, periodic maintenance protocols for essential utilities, particularly water systems.
- Establish a centralised, multi-stakeholder committee to track and escalate maintenance issues.
- Revamp underutilised spaces into modern student recreational hubs.

### **5.3.2 Long-Term Objectives**

- Ensure absolute transparency in the utilisation of student-driven funds through digital audits.
- Create a standard escalation framework for accountability across all administrative layers.
- Formalise student representation in financial decision-making processes regarding hall overheads.

## 5.4 Methodology

### 5.4.1. Water Quality Assurance & Utility Maintenance

Implementation of a systematic maintenance schedule for all water coolers across campus.

- **Rigorous Inspection:** Scheduled servicing cycles and immediate response protocols for reported issues.
- **Feedback Integration:** Utilising digital platforms to create a direct loop between student complaints and technical resolution.
- **Goal:** To ensure the continuous availability of clean drinking water and improved reliability of hydration infrastructure.

### 5.4.2. Infrastructure Revamp: The "F127 Room" Project

Complete transformation of the F127 Room into a high-utility student hub featuring:

- High-speed internet and air conditioning.
- Ergonomic seating and collaborative layouts for informal learning and relaxation.

### 5.4.3. Central Maintenance Coordination Committee

Formation of a unified committee to bridge the gap between students and administration.

- **Composition:** General Secretaries (Maintenance) of Halls, Wardens (Maintenance), Coordinating Warden (HMC Maintenance), VP TSG, and Chairman HMC.
- **Responsibilities:** Centralised tracking of issues, periodic review meetings, and the creation of a standard escalation framework.

### 5.4.4. Financial Audit and Transparency Framework

- **Digital Portal:** Development of a platform to display fund allocation, expenditure breakdowns, and utilisation reports in real-time.
- **Signatory Reforms:** Amendment of Hall Overhead Charges clauses to include the **Hall President** and **Students' Senate Member (SSM)** as mandatory signatory authorities for financial decisions.

## 5.5 Impact on Students

- **Health & Well-being:** Reliable access to clean drinking water significantly reduces health risks.
- **Living Standards:** Faster issue resolution and upgraded spaces improve the overall quality of campus life.
- **Accountability:** Students gain direct visibility into how their funds are utilised, fostering trust in the administration.
- **Empowerment:** Inclusion of student representatives in financial workflows ensures student-centric decision-making.

## 5.6 Background and Groundwork

- **Water Quality Evidence:** Reports from the student-run media body have highlighted instances of contaminated tap water and maintenance lapses at Nalanda.
- **Student Feedback:** Repeated complaints indicate that the primary barrier to resolution is a lack of clear accountability and coordination between administrative layers.
- **Stakeholder Insights:** Informal discussions with hall-level maintenance teams confirm the need for a structured coordination committee to streamline departmental communication.

## Stakeholders Involved

- **Students:** Primary beneficiaries and feedback providers.
- **Hall Management Council (HMC):** Key coordinating and executive body.
- **Wardens & Maintenance Staff:** Responsible for execution and monitoring.
- **Institute Administration:** Policy approvals and primary funding.
- **ERP & IT Teams:** Development of the transparency portal and complaint tracking systems.
- **Student Bodies (TSG):** Oversight and implementation support.