



# Students' Gymkhana General Elections 2014-2015

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**Rishi Gupta (12578)**

Candidate for

**GENERAL SECRETARY,  
SCIENCE AND TECHNOLOGY COUNCIL**

**Proposed By:**

Sonu Agarwal (11726)

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**Seconded By:**

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### **Vision:**

I visualize the Science and Technology Council as a platform which enables practical learning as well as visible implementation of technical innovation, thereby spreading awareness about the council's work and further motivating students to participate and excel. I wish to create an environment where students not only go through a rigorous learning process but also use their skills to bring about a positive change in the society. I envision a community where every student gets a chance to explore scientific and technical opportunities. I wish to create forums through which alumni's can enrich the council through their knowledge and experience.

### **Mission:**

- Raising the standard of work undertaken by the council in the form of various projects.
- Establishment of a superior learning process within the council advocating a culture focused on a "give back to society" attitude.
- Implementation of infrastructural changes to meet the dynamic requirements of the diverse clubs and hobby groups.
- To ensure active and efficient participation of senior students thereby enhancing the learning process for the junior students.
- Developing strong relations with the alumni to keep them associated with their respective clubs.
- Conduction of various innovative workshops and informative lectures throughout the year.
- To use the expertise of the council community to assist ongoing campus programs and initiatives in becoming technically sound.
- Exhibition of the councils work on various platforms to ensure that the efforts made by students get the recognition they deserve.
- To develop synergy between different clubs and hobby groups to facilitate exchange of ideas leading to conceptualization of ingenious inter-club projects and further creation of a reliable feedback system.
- Introduction of professionalism within the council cultivating routine publications in renowned journals and thus encouraging Entrepreneurship and Patent registration among students.



## Increasing participation

### **Lectures and Workshops**

- Will continue to promote all campus residents irrespective of batch or program to participate in council activities.
- Organising advanced lectures and workshop by professionals on diverse topics and software required in various departments/fields.
- Will organise weekly lectures by different clubs and hobby groups, to provide ample opportunity to students to gather knowledge and explore different interests.
- Synergize the efforts of SnT secretaries of individual halls to help endorse Science and Technology culture in halls.
- Will encourage PG hall committees to have SnT secretaries to channelize the participation of postgraduate students in council.

### **UG-PG Science Convention**

- A platform where Undergraduate as well as Postgraduate students get an opportunity to present their project work enabling sound UG-PG interaction.
- Will invite renowned faculty members from various technical fields to judge the presentations and demonstrations.
- Will kick-start projects inspired by the research works of Postgraduate students along with regular mentoring and specialized guidance by the respective Postgraduate student.
- Propose an Inter-IIT Sci-Tech Conference, where the finest research works by the students in various fields from all IITs can be showcased and appreciated together with Inter IIT Tech Meet.

## Infrastructure

### **Tools Inventory**

- Centralized purchase and storage of tools in inventory, which will be established in new SAC staff office.
- Club coordinators shall issue and return of tools based on dynamic needs of clubs.
- Students will be able to use the existing Gymkhana Component Issue Form to issue tools from new SAC.

### **Renovation Plan**

- Systematic infrastructural renovation of clubs according to the requirements to optimize their performance.
- Defunct Equipment of all the clubs will be replaced on a top priority.
- Propose a common floor for all SnT clubs and hobby groups under New SAC Extension plan.



## **Tinkering Lab**

- Aim to bring more advanced machines like aluminium welding machine, aluminium 3D printer etc.
- Aiming to increase the access to tinkering lab and number of working days.
- Promote manufacturing of prototypes under council making best use of tinkering lab.
- Will organise more number of workshops and competitions to introduce students with working of various machines.
- Will try to implement online slots booking system and automatic allotment of slots.

## **Council Activities**

### **Projects**

- Emphasizing quality rather than quantity of projects encouraging long term projects.
- Advertise options through tests and rigorous interviews in odd semesters.
- Organize diligent lecture series and engrossing workshops for selected students.
- Shortlisting of students before summers and during winters to pursue advanced projects in even semesters.
- Clubs can take independent projects making use of existing components from time to time.
- Specialized lecture series by Postgraduate students on need and efficiency of a better documented project.
- Will continuously push for publications in renowned journals in diverse fields.
- Will promote more advanced projects in Interactive Media like Android Apps, Games, etc. and publicise them.

### **Summer Camp**

- Will continue to have lectures and workshops on different topics, which will enable learning in various fields.
- This camp will provide hands on experience through basic projects towards the end of camp.
- Certificates will be given to those who successfully complete this camp mentioning the names of topics covered in this camp.
- This will be a better learning opportunity for students and those who attend this camp will be preferred for projects next year.

### **International Competitions**

- Will appoint an overall head to oversee international competitions and promote participation in the same.
- The overall head for international competitions will be a competent person from any of the previous teams to assist the institute teams in administrative as well as their financial issues.
- Will focus on encouraging more students to be a part of the current teams of international competitions as they provide more competitive and advanced learning experience.



- Routine meetings with institute team leaders to review their work and discuss various other issues.

## **Takneek**

- Early appointment of Takneek overall coordinator and flagship events coordinators to fully utilize the summers for efficient planning.
- Introduction of flagship events focusing on issues in and around campus, thereafter encouraging the promising teams to extend their ideas into full-fledged council projects.
- To prepone astronomy events of Takneek in case of forecast of unclear sky, ensuring timely completion of events.
- Automation of the bill verification process that has to be completed by individual pools as per gymkhana norms.

## **Hardware Hackathon**

- Organize a hardware hackathon to bring innovation out of the minds of students
- Will contact companies for sponsorship for this event in collaboration with E-Cell
- This will be first hackathon by any college in India, which at international level, as of now only MIT organises.
- First edition will be open for only IIT Kanpur students and will contact Techkriti team for expanding it to a national level event.
- A prize money and certificate will be given to the winners; will also try for other incentives like internship with sponsors.

## **Entrepreneurship**

- Focus on increasing participation from council in events like pitch your product and innovation challenges nationwide.
- People with ideas for technical start-ups based on product development can float a project under council after rigorous scrutiny, giving them a firm background before they start pitching to investors.
- Talks by successful entrepreneurs who have set up similar kind of start-ups across India.

## **Collaboration with Vendors**

- Formulation of proper rules and procedure for sponsorship, and a separate marketing team for this.
- Collaboration with enterprises that provide components regularly bought by the clubs of the council.
- Negotiate with companies to get a common account through which items can be purchased at lower prices.
- Will make it mandatory to order components from the common account.
- Anyone in campus can order components through the common accounts to avail the discounts simultaneously increasing the purchasing amount per year.



- Publicising the relevant companies through a resources page on SnT website as an incentive for sponsorship.

## **Project Guidance cell**

- Council will help students doing their UGP/BTP/Thesis get in touch with relevant sources.
- An online portal which will incorporate all resources from various fields.
- Integration of the skill scroll within the portal to help student get in touch with people who are skilled in a particular field.
- Appointing coordinators to manage the database and also to guarantee quality replies to queries raised by students.

## **Alumni contact team**

- The team will create and maintain a record of all the alumni involved with the council.
- Contact them and keep them informed about the work done by the council.
- Conducting reunion of council alumni on SnT day along with talks by renowned professionals who are leading in their respective fields as well as felicitation of the same.
- Will exhibit the work done by the council and the Gymkhana teams, highlighting the council's achievements.
- Requesting a new account under DORA dedicated to Gymkhana teams under SnT council and alumni reunion.
- Calling will be done to alumni involved in past with council by forming a team through ACP for requesting funds for Gymkhana teams under SnT council and alumni reunion.
- This will facilitate a smooth funding process for Gymkhana teams which regularly requires large amount of funds.

## **Inter IIT Tech Meet**

- Propose more events encompassing various fields in science and technology.
- Conducting workshops centred around Tech Meet events and also include events relating to the Tech Meet in Takneek.
- Will propose to get MHRD approval for Inter IIT Tech Meet, so that it gets a good recognition and participation.
- Will provide recognition by Gymkhana to winners in Inter IIT Tech Meet

## **Online Presence**

- Will create a new website for the council and ensure proper updates of all club websites.
- Will have a specialised news feed page on website to publicise our activities and other articles.
- The above will be continued to publicise through various social media platforms like Facebook.



## Student feedback

- Will introduce an online feedback portal where students can give their valuable feedback and suggestions.
- Monthly open meetings to discuss the future possibilities and ideas for the council.

## Other agendas

- Promotion of hobby groups like science coffee house, will send common mails to student list containing minutes of previous discussions and topics to be discussed next.
- Organizing Programming workshops to help people improve their programming skills which would be vastly beneficial for those sitting for placements and internships.
- Organisation of an exhibition of club projects in collaboration with Techkriti.
- Will continue participation in national competition like Techfest, Techkriti etc. by first year students.

## Core Team Structure

- Club Coordinators
- Hobby Group Leaders
- Head, Web
- Head, Creative cell
- Head, Finance
- Head, International Competitions
- Head, Project guidance cell
- Head, Editorial team
- Head, Marketing team

## Credentials

### Technical Achievements

- 1<sup>st</sup> runner-up in Wild Soccer, **Techkriti'14**
- Won 1<sup>st</sup> prize in Wild Soccer, **Takneek'14**
- Bagged 6<sup>th</sup> position in Robowars, **Techfest'14**, IIT Bombay

### Projects and work experience

- **Pneumatic Flipper Combat Robot** to flip opponent' robot for Robowars, Techfest'15
- **Stewart Platform**, Summer Project under Robotics Club, 2013
- **2-D drawing robot using Stewart Platform**, Project under Prof. J. R. Kumar, 2013
- Successfully organised **ANSYS workshop** by professionals for the first time in campus in December'14



## **Positions of Responsibility**

- Coordinator, Robotics Club ( March'14 - Present)
- Principle Security Officer ( PSO), Antaragni'14
- Science and Technology Secretary, Hall of Residence-2 (April'13 – April'14)
- Secretary, Robotics Club (April'13 – March'14)
- Senior Security Officer( SSO), Antaragni'13
- Assistant Coordinator, Jugaad, First Inter IIT Tech Meet (Fabruary'13 – March'13)