IIT Kanpur presents   19th-22nd March
TECHKRITI'15
Blueprint to a Smarter World

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TECHKRITI'15

19th-22nd March, 2015

Post Conduction Report

Theme: Blueprint to a better World

Registrations: 1816 + 522 (Open Fest)

- The option of online payment of registration fee was made available for the first time.
- Registration was 100% cashless. The on-spot registration payments were done either online or through Demand Draft.
- Caution money was given in Cash to the participants paying through DD.
- Despite the payment portal being open about 2 months prior to the festival most of the participants completed registration just a fortnight before the festival.
- The Monetary Fine for losing booklets was increased to ₹ 1,500 / ₹ 500 (Regular/Open Fest) citing the fact that participants could easily launder a booklet for their friends. It is suggested that all the fines be standardized by the Student Senate prior to the festival.

COMPETITIONS:

Highlights

- **Boeing NEA SkySparks –** Boeing in association with Techkriti organized an Aerospace engineering event, the goal for the participants being to design a wireless controlled aircraft capable of performing certain specific manoeuvres and landing. The competition witnessed participation from China for a prize pool of INR 2.25 Lacs.
- **SocCon -** The competition was aimed at the brightest minds in the country where they attempted to solve a problem of the masses. The event is presentation based in which the participants provide innovative solutions to the different social problems present in our country. The event was conducted in association with Indo-US Science and Technology Forum
- **iARC -** The event focused on solving a maze via line following, one of the very basic yet extremely important concept of robotics. Participants had to prepare 2 autonomous robots which could communicate with each other so as to simultaneously solve 2 mazes via line-following. Participants from Bangladesh competed as well for prizes worth ₹ 200,000.
- **IOPC -** Computer engineering event where participants have to code solutions to a given problems. We witnessed about 1400 participants from more than 20 countries.
- **iHPC -** The largest high performance computing in Asia, lets the participants explore the enormous potential of parallel computing by running the codes on PARAM, India's first super computer.

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- **Battle City** - Online programming event that tests your algorithm designing skills, coding strategy and speed, as the participants compete against the best in the country.
- **All India Student Research Convention –** The motive of this event was to provide participants with a platform to show their work in the field of research. We had six categories to this event. These categories were:
  - o Advanced Materials
  - o Computing
  - o Energy
  - o Environment
  - o Healthcare
  - o Nano science

Entries were received in the form of research papers, prototype and models and were presented before the panel.

- **INAE-IIT Kanpur National Competition *"Innovation in Manufacturing Practices 2015"* –** A national level competition organized by mechanical engineering department of IIT Kanpur in collaboration with INAE to provide the brightest minds, a platform to display and exuberate their talent in design and manufacturing. Participant had to design an effective and innovative model and give a final working shape as a product. The prize money of the event was INR 5 Lacs.
- **Startup Weekends** are 54-hour events where developers, designers, marketers, product managers and startup enthusiasts come together to share ideas, form teams, build products and launch startups! One such initiative was taken by Techkriti'15 and we organized the **Google Startup Weekend** which witnessed 70 odd participants.
- **Electrade**: Electronics design event where the participants had to design a given circuit on the spot using the available components. The participants had a limited purse decided on the basis of their performance in an electronic related quiz. The competition received rave reviews from the participants.
- **E-Factor:** This year the event has been divided into 4 different categories:
  - o Business venture
  - o Social Track
  - o Elevator Pitch
  - o Manmohan-Gill Bio Business Event

Beginning with open mic pitches on Friday, attendees bring their best ideas and inspire others to join their team. Over Saturday and Sunday teams focus on customer development, validating their ideas, practicing LEAN Startup Methodologies and building a minimal viable product. On Sunday evening teams demo their prototypes and receive valuable feedback from a panel of experts.

- **Techkriti Open School Championship:** At the 21st edition of our festival, we extended the opportunity to be a part of this extravaganza to the whiz kids from classes 9th to 12th from Kanpur and Lucknow regions. The competition required students to answer a set of written questionnaire in each round. The questions

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appealed to the logical and aptitude skills of the students and questions were both subjective and objective in nature.

- **TechnoCruise**: For the first time, Techkriti embarked on a journey under the vision to educate and to provide skill-development opportunities free to all. Under the banner of TechnoCruise, competitions and workshops were held in Kuwait and 20 Indian cities including Mumbai, Kolkata, Noida, Jaipur, Indore, Guwahati, Bhubaneswar, and Bhopal. The event saw an enthused response with over 35,000 footfalls.
- **In Campus Workshops:** Continuing with our aim to promote skill development, we organized 21 workshops pertaining to everything under the sun which is a record number.

MAJOR COMPETITIONS	DESCRIPTION
ROBOGAMES	➢ iARC ➢ Wild Soccer ➢ Manoeuvre ➢ Shuffle
ECDC	➢ Electromania ➢ Electrade ➢ FPGA ➢ Embedded

BUSINESS	➢ IDEAS
	➢ Stocksim
	➢ Battlefield
	➢ Do Your Due
	➢ Be the Tycoon
	➢ Marketing Villa
	➢ Online Events:
	   o Finatics
	   o Mark-Ops

PRESENTATION	➢ SocCon ➢ 29 States ➢ AISRC
TAKE OFF	➢ Sky Sparks ➢ Cruise Control ➢ Hoverush ➢ Impulse ➢ MultiRover
SOFTWARE CORNER	➢ Battlecity ➢ IOPC ➢ IHPC ➢ Chaos

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IMP (Innovation in Manufacturing Practices)	Described Earlier
TOSC (Techkriti Open School Championship)	Aptitude & SocCon for school students (9th, 10th, 11th, 12th) of Kanpur & Lucknow
DESIGN	➢ Junkyard Wars ➢ Techkriti Grand Prix ➢ Concatenate ➢ Scientoon ➢ Bridge Design Challenge ➢ Design 3D

MIXED BOWL	➢ Nut Cracker
	➢ IORC
	➢ Mix Bowl Quiz
	➢ Crime Run
	➢ Cosmos
	    o Whats Up
	    o Astro Quiz
	    o Astro Treasure

ZONALS	1. Mumbai 2. Bhubaneshwar 3. Uttarakhand 4. Amlapuram 5. Ghaziabad 6. Raipur 7. Chandigarh 8. Bhopal 9. Noida 10. Lucknow 11. Gwalior 12. Nagpur 13. Jaipur 14. Kolkata 15. Solan 16. Meerut 17. Jhansi
MYNTRA LOOK GOOD RUN	3km Marathon on 21 March'15
THROUGH YOUR LENS	Technical Photography Competition
FIFA FEVER	Football Stunt Competition

- With prizes worth **35 lacs** at stake, the competitions were fiercely competed by teams from all over the India. Techkriti'15 saw the largest international presence on campus with over 30 participants for 3 events. Participation from China was seen for the first time in Skysparks. A total of 21 workshops were successfully organized during Techkriti'15.

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The following records were broken:
1. Megaminx by Bhargav Narasimahan wih an average time of 1:03.07 min and a single best time of 51.65 sec.
2. National Rank 2 in 3x3 FMC (Fewest Moves Challenge) Single was secured by Nikhil Mande (31.67 moves)

WORKSHOPS

1. CAN-SAT Workshop
2. Quadcopter 18*
3. Quadcopter
4. Ethical Hacking
5. Propeller Clock
6. Digital VLSI
7. Embedded Systems
8. Advanced Automobile Mechanics
9. Automobile Mechanics & IC Engine
10. Cloud Computing
11. Share Market
12. Speech Robo
13. Touch Screen Robotics
14. Raspberry Pi
15. Augmented Reality
16. Android App Development
17. App Forensics
18. Mobile Hacking
19. Python
20. Whatshack
21. Candy Construction

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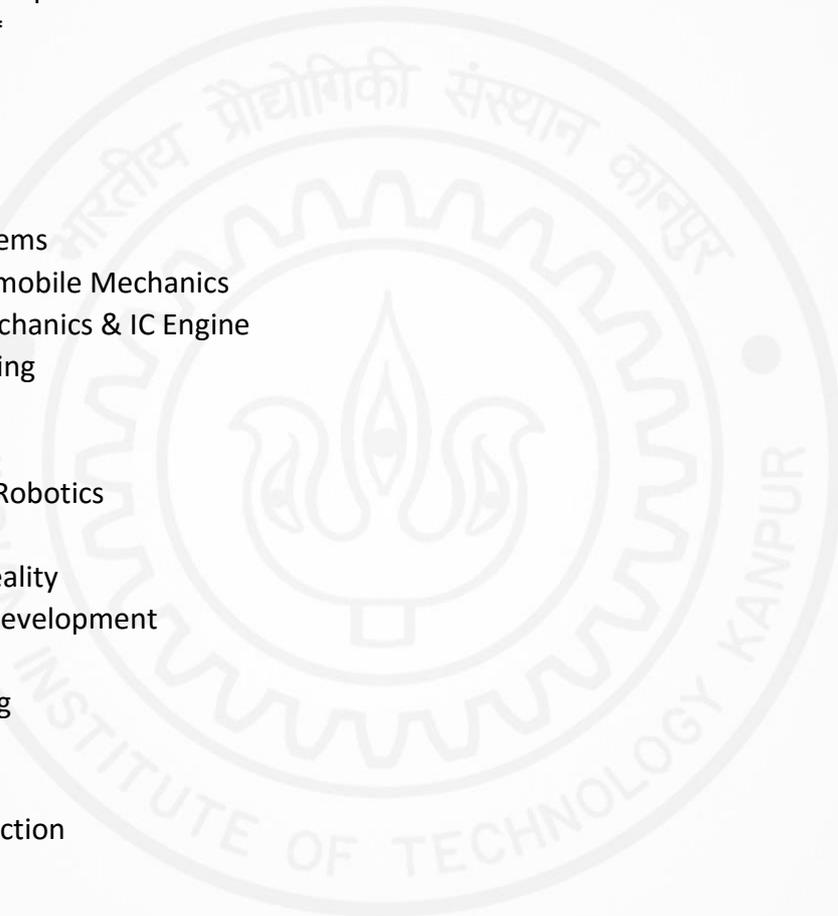
Public Relations

The proposal to rename the post Head, Professional Affairs in Techkriti to Head, Public Relations was accepted on August 11, 2015.

Talks

Techkriti boasted of a very diverse line-up for Talks, with personalities from Theoretical Physicists to Bankers and Journalists. The speakers were a part of Techkriti's Leadership Summit which can be seen as a common platform for the men and women who shape our tomorrow. The idea was to bring achievers from all walks of life to inspire the attendees. The response for all the talks was overwhelming irrespective of the slot timing. Also, continuing the practice started by our predecessors, Techkriti'15 hosted a Pre Festival Talk delivered by Richard St. John which received a great response from the campus community.

Industrial Conclave was aimed at providing insight into the industry. It involved both Talks as well as Workshops from veterans in the industry. GE, SAP Labs, Juniper Network, Microsoft, Canon and Samsung were invited to the Conclave.

Earlier, Techkriti collaborated with the Student Placement Office to conduct Placement Preparation Sessions for more than 275 students.

E-Panel was successfully concluded with the presence of Amit Ranjan, Alok Soni and Divya Sornaraja.

Carl Hagen, Shekhar Gupta and Shraddha Sharma could not come due to unavoidable circumstances.

Exhibitions

Auto Expo was organized was the first time in IIT Kanpur. Avanti and Tia developed by DC Design were showcased in the Expo. It was a great success and a centre of attraction through the 4 days of the festival.

Space Expo was organized for the first time in any IIT. ISRO exhibited models of Launch Vehicles, Satellites and Mangalyaan.

International Education Fair concluded successfully with presence from embassies representing Switzerland, Israel, US, France and Germany. This was preceded by talks and CV/SOP workshops by Campus France and Embassy of Switzerland.

In an attempt to make the **Tech Expo** diverse, exhibits ranging from Start-up Novums to Handheld weapons were displayed. A need to make the exhibitions more interactive was felt and should be addressed in the editions to come.

Shows
1. Kate Chruscicka (Classical Violinist)
2. Street Show from Israel
3. Light and Sound Show
4. Poets of the Fall

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Major Achievements of Techkriti'15:

1. Participation from China was seen for the first time in Skysparks.
2. The model of an open fest was implemented for the first time in Techkriti'15.
3. The largest international presence on campus with over 30 participants for 3 events.
4. Total team registration crossed the 1000 mark in IOPC.
5. A total of 23 workshops were successfully organized during Techkriti'15.

Recommendations

1. Mull over shifting of Techkriti back to the last week of January (as was before 2012).
2. In the past, many bills have exceeded the tender amount due to lack of foresight. Increasing supervision on the tender process and deliverables by the vendors can ensure that the bill does not deviate too far north of what had been promised.
3. Explore the possibilities of having a venue outside the campus. It could significantly increase the quality of certain competitions like Techkriti Grand Prix, Junkyard Wars etc.
4. We believe that Pre-Fest Talks help in raising tempo for the festival and in understanding the dynamics of conduction, such events should be continued.