



TECHKRITI '16

Post Conduction Report

Techkriti the annual inter-collegiate technology and entrepreneurship festival organized by the students of Indian Institute of Technology Kanpur, received great response from the participants and the campus residents in its 22nd edition.

Theme: Beyond Our Planet

Stats:

Participants	
1. With Accommodation	1. 1800
2. Without Accommodation	2. 436
International participants	
1. Online Events	1. 400
2. During Festival	2. 45
Zonal Participants	
1. Competitions	1. 1000
2. Workshops	2. 1700

Major Highlights

- Opening Ceremony with the keynote of Dr. Hamid Karzai, Former President, Afghanistan held in OAT
- Collaboration of Techkriti with Ministry of Social Justice & Empowerment to promote Accessible India Campaign. A competition was organized where some of the ideas/projects that participated were prosthetic hand, idea of a wheel chair that would be controlled by brain waves, biomechanical prosthetic limbs, obstacle detector for blind people etc.
- International participation: Amongst the competitions organized during the festival, 3 teams from Sri Lanka participated in IARC for the very first time. Mutoriotor saw participation from 3 international teams, 5 international teams participated in IARC, 1 international team in Wild Soccer, 2 international teams in IRGT and 2 in Techkriti Innovation Challenge.



- Some of the new events introduced this year were International Robots Got Talent, Internet of Things, Rule the Sky, Manmohan Gill Bio Business, Best Manager, Countdown, Accessible India Competition, Techkriti Innovation Challenge
- Some of the important projects in IRGT were an autonomous drum playing robot, autonomous underwater vehicle, a robot that could detect mines etc.
- Top startups in Business Venture competition were Piltover Technologies, Instichoose, TAI.

Initiatives

1. Spreading Smiles:

- TOSC Sessions: Sessions were conducted during TOSC to bring out the positivism amongst the students.
- Make a wish: Techkriti team fulfilled the wishes of the children at Subhash Children Home Kanpur and helped setup a Sports and Hobby room there.
- Winter Donation Drive: Taking a leaf out of the previous editions of Techkriti, Team Techkriti organized winter donation drive in Bhopal, Kolkata, Noida, Lucknow, Indore and Gwalior.

2. Car Launch Event of Team FSAE, IIT Kanpur:

3. New Year Celebration:

4. Accessible India Campaign: In association with Ministry of Social Justice and Empowerment, Techkriti undertook the promotion of Accessible India Campaign launched by the ministry with the purview of making at least 50 percent of all government buildings in the national capital and all state capitals “fully accessible” for the disabled by July 2018. Techkriti serves as the stepping stone for the same with a nationwide competition for college students to come up with ideas and technological solutions to achieve the same.

5. Education Opportunity at France:

6. Summer Training: For the first time Techkriti organized Summer Training program at 4 different centers across the country.

7. Astrophotography Competition: World Space Week: Techkriti marked World Space Week with an astrophotography competition which received entries from various countries like New Zealand, France, Italy etc.

8. Panel Discussion on Space Exploration: Techkriti'16 revealed its theme, “Beyond Our Planet” with a panel discussion with the following panelists:

- Mr. Abhlesh Tomy: First Indian solo Circumnavigator
- Prof. Pankaj Jain, Physics
- Prof. Nitin Gupta, BSBE
- Prof. Kushari, Aerospace
- Prof. YN Singh, EE



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3rd - 6th March

Major Events

- IARC
- Multirotor:
- Wild Soccer
- IORC
- IOPC
- TGP
- IRGT
- Sky Sparks
- INAE-IIT Kanpur National Competition “Innovation in Manufacturing Practices 2016”
- TIC: Techkriti Innovation Challenge
- IOT: Internet Of Things
- Accessible India
- Embedded:
- Appathon: “Applications Development Challenge”
- Entrepreneurial Events:
 - Business Venture
 - Social Track
 - Manmohan Gill Bio Business
 - Internet of Things
 - Elevator Pitch

Open Fest

The model of Open Fest executed by Techkriti included letting students be a part of the festival for only all four days and not daywise. Thus, all the open fest participants were to pay a fees which would make them eligible to be a part of the Festival for all days. Their entry would begin in the morning and the exit was to be made by 10.30 PM. The number of such participants was restricted to 500. Through proper monitoring the entry and exit, the team was successful in ensuring that Open fest model helped participants without creating unnecessary security risks.

Technocruise

Technocruise is the zonal round of Techkriti. Apart from the workshops, it included prelims of various competitions for the first time.

Zonal City:

1. Bhopal
2. Jaipur



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3. Kolkata
4. Noida
5. Chandigarh
6. Lucknow
7. Gwalior
8. Agra

Events:

1. IARC
2. Manoeuvre
3. Impulse
4. BattleHack

Workshops:

1. Android App Development
2. Ethical Hacking
3. Internet of Things
4. Robotics
5. Rubik's Cube

Techkriti Open School Championship

Aptitude and presentation competition for school students of class 9th-12th, organized in 11 cities of the country.

Round 1: Around 3000 students participated in the first round of TOSC

Round 2: Online abstract submissions

Round 3: Final 100 participants were called to IIT Kanpur for the final round presentations.

Cities:

- 1) Kanpur
- 2) Lucknow
- 3) Delhi
- 4) Mumbai
- 5) Bangalore
- 6) Jaipur
- 7) Kota
- 8) Jhansi
- 9) Gwalior
- 10) Indore
- 11) Nashik



Talks

Dr. Hamid Karzai	The Former president of Afghanistan graced the opening ceremony of Techkriti held in OAT
Vikas Swarup	Spokesperson, Ministry of External Affairs, Author: Q & A
Dr. Lyn Evans	Director of the Linear Collider collaboration at CERN, Ex Project Head, Large Hadron Collider
Mike Libeck	Nat Geo Adventurer of the year 2013
Pradeep Sindhu	Founder, Juniper Networks
Jorge Gabriel Cham	Chinese Panamanian cartoonist and roboticist, creator of "Piled Higher and Deeper Comics".
Alex Hutchinson	Creative Director, Ubisoft interacted with the students through Video Conferencing

E-Speak

Mr. Alok Soni from Yourstory hosted the session with Mr. Netanel Raisch, Founder Lishtot (Israel). Netanel Raisch developed Lishtot, Jerusalem-based startup which won a place on CNBC's list of the 20 hottest startups of 2015 for its device that takes about two seconds to tell you if water is pure or contaminated.

India Innovators

As part of India innovators, the following people shared the stage to discuss with students the innovation they brought in and their take on the present scenario.

1. Ravi Nawal: Author, India Can
2. Dr. Pawan Agrawal: Dr. Pawan Agarwal runs Mumbai Dabbawala Education centre to give Education to Dabbawala and Deprived Children absolutely FREE.
3. Vijay Talati: Vice President of Engineering, Routing Business Unit, Juniper Networks



Industrial Conclave:

Company	Profile	Topic
Samsung	Mr. Balaji Holur (Senior Vice President, Samsung R&D Institute, Bangalore)	Practical Approach towards realization of Android Platforms in Internet of Things Space and impact of Big Data analytics technology.
Microsoft	NA	Design of Software
SAP Labs	NA	Free workshop on Internet of Things and its implementation
Winjit Technologies	Mr. Abhijit Junagade (Co-Founder, Winjit Technologies)	Interactive session with students on startups.
A-Set Technologies	Mr. Diwakar Vaish	Indigenous Robot Building

Exhibitions

1. Automated Chess
2. Smart Technologies
 - i) Manav: India's first interactive and fully automated humanoid which will interact with the audience and give a glimpse of the technical advancement in robotics
 - ii) Bionic Arm: A robotic prosthetic arm
 - iii) Autonomous Drones: Fully autonomous drones which can undertake long range flight
 - iv) Brain Sensing: A smart device to detect and convert brain senses into mechanical maneuvers
3. Smart Vehicle Expo
 - i) HoverTrax
 - ii) Mono Wheel Bike
 - iii) Solo Wheel
4. Gesture Controlled Gaming.
5. Golf Simulator
6. Urban Flow, ETH Zurich
7. Drum Playing Robot
8. Prosthetic Hand



Shows

- Farhan Live: Concert by Farhan and crew
- Sunburn Campus: DJ Shaan, DJ Joshi and DARTH Legion
- Interactive session with TVF:
 - Amit Golani: Director, TVF Pitchers
 - Naveen Kasturia aka Naveen Bansal (5 episodes)
 - Jitendra Kumar aka Jitendra Maheshwari (Jitu)
 - Abhay Mahajan aka Saurabh Mandal (5 episodes)
 - Aakanksha Thakur aka Saumya Maheshwari
 - Vipul Goyal, TVF
- Fire and LED Show: Atmosphere Performers, France
- Bike Stunt Show: Edge Ryderz

Megaworld and Informals

- Megaworld: One stop destination for participants to take part in various activities to collect Megabucks and win prizes in auctioning.
 - Business Tambola
 - Treasure hunt
 - Scavenger Hunt
- Poker Tournament
- Quick Reaction Team from Youtube fame interacted with students to make them a part of their upcoming youtube videos
- Blind Date, hosted by Varun Sood, Roadies Fame

Fun-T

- Laser Tag
- Paint Ball
- Zorb Football
- Sumo Wrestling
- Poker
- Archery
- Ball Zorbing



Recommendations

- 1) Considering the evident requirement of a room in the ground itself for functions as varied as storage, security room etc., we propose one to be built right beside in the pro nite ground, right beside the last gate connecting it to festival ground.
- 2) Gymkhana can look into purchasing RFID security cards for the festival which can help a lot into tracking the entry and exit of participants.
- 3) The post of Head, Media and Publicity to be broken into two different posts: Head, Media and Head, Publicity considering the difference in work. The number of overall heads however remains same.
- 4) Techkriti can collaborate with Students' Gymkhana to conduct STARC before Techkriti. It could serve as the intra IITK round of a students' research convention which could later be organized in Techkriti either as part of Techkriti Innovation Challenge or independently.
- 5) Given the situation faced by different festivals because of rain, the upcoming teams should definitely look into the possible measures to keep the festival going:
 - a) Covers
 - b) Waterproofing of Techplanet
 - c) A buffer for the same
 - d) Any other measure as deemed necessary

