

## POST CONDUCTION REPORT

IIT Kanpur has always believed in and practiced the philosophy of inculcating complete education including personality and leadership development among the youth. In accordance with this culture, the Students Gymkhana of IIT Kanpur has been organizing an annual All India competition on Innovation in Technology and Entrepreneurship, acronym Techkriti, among engineering students of this country for the last 27 years. Sustained efforts have now elevated Techkriti to a global platform for promoting innovation and creativity. The festival is a much-awaited event in the technical and business calendar of the student community and attracts participation from India as well as abroad. Techkriti'22, 2022 edition of Techkriti, is in hybrid mode.

### Theme: Transcending Origins

Celebrating the journey of over 27 years, Techkriti evolved, manifesting its unwavering beliefs and tenacious standpoints, embodying the diverse portrayal in its themes of its previous editions. It depicted variegated frontiers in its vision, driving waves of innovation and brilliance on a technological canvas forming a portrait of consonance.

Thriving all these years, Techkriti has approached and now stands on the edge of the technological frontier, that describes as the fundamental structure of being, not as an ontology, but as a framework of emergence and validation of knowledge of being. Let it be affirmed that we may transcend our scientific and cultural roots and redefine our identities, individual or collective. Transcendence opens the door not only to personal transformation but also to confront ethnic stereotypes and prejudices. This edition of Techkriti dwells on accelerating alterations of our scientific knowledge and endless possibilities and hence remaking of our own being, in this age of quantum leap.

Techkriti'22 will be organized from 24th - 27th March 2022.

The core team specially thanks for the efforts of the following people, without whom Techkriti, as is now, would not have been possible.

- Dr. Siddhartha Panda(DOSA, IIT Kanpur)
- Dr. Kumar Ravi Priya (ADSA, IIT Kanpur)
- Dr. Amitabha Bandyopadhyay (FAC Chairman, Techkriti)
- Dr. Deepu Philip (Member, FAC)
- Dr. Wasim Ahmad (Member, FAC)
- Mr. Tanmay Gupta (Ex Core Team, Techkriti'21)

We are also grateful for the support provided to us by the Senate, Professors, Staff, IIT Kanpur Administration, and all the students of IIT Kanpur.

## INITIATIVES

### HOPE:

Handing Opportunities by Promoting Education (HOPE) is the social initiative taken by Techkriti to bring educational opportunities to students who cannot access these facilities otherwise. The various activities under the umbrella of HOPE were:

- **Cloth For Cause (Cloth Donation Drive) (25th December 2022):** To encourage the spirit of giving, we organized camps to donate old blankets and winter clothes to the needy homeless people for winter and donated over 100 kgs of clothes collected from Diwali till Christmas. Our aim is to encourage more and more people to take part in such activities.

## Entrepreneurial Conclave

E-Conclave is a flagship event of Techkriti effectuated with the intention to foster entrepreneurial initiatives and activities in the campus to accomplish IIT Kanpur's mandate of nurturing India's future technopreneurs. Sharing of entrepreneurship endeavour and experiences, discussion of ideas and opportunities will be a profuse learning experience for the active leaders of entrepreneurship in the savant community who can then disperse these ideas further.

- **Talks**
  - Panel Discussion
  - Talks on startup lifecycle.
- **Workshops**
  - Startup and Entrepreneurship
- **Competitions**
  - Upstart Pioneer
  - Last Pitch Effort
  - Pitch Premium

### Talks of Entrepreneurial Conclave:

- Vivek Gupta (Founder of Licious)
- Parag Dhol (Managing Director at Inventus India)
- Sandeep Singhal (Senior Advisor at NexusVP and Avaana Capital)



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- Anant Vidur Puri (Partner at Bessemer Venture Partners)
- Ritesh Arora (Founder of BrowserStack)
- Pankaj Agarwal (Founder and CEO of TagHive)
- Lalit Keshre (Co-founder & CEO of Groww)
- Amit Agarwal (Founder & CEO of NoBroker)
- Rizwan Koita (Co-Founder & Board Director of CitiusTech)

## PRE-FESTIVAL ACTIVITIES

**Rang Barse (12th March 2022):** In association with Campus Haat, Techkriti organized the fun-filled pre-fest event, to celebrate our most vivid and joyous festival of HOLI held in the Pronite Ground. Goodies, Food stalls, and refreshments, accompanied by a DJ, the entire event received warm responses from students.



## MAJOR EVENTS & COMPETITIONS

- **IARC:** This event is all about an autonomous bot built from scratch by participants, judged on its ability to perform usual tasks. It tests the level of precision in the end-to-end designing and fabrication of the bot, and intelligent use of sensors and coding. This is one of the flagship events of Techkriti, witnessing large participation from across the country and also around the globe. It saw the footfall of 40+ teams in the final round last year.
- **IOPC:** IOPC is the annual International Online Programming Contest of IIT Kanpur, organized by the Techkriti team. It is a prestigious programming contest where each coder whacks his brain to code solutions to the given problems. It is the place where optimization and proficiency matter, skills matter, hard work matters.
- **Robocad:** The ultimate test of engineering excellence, teamwork, strategy, and gaming is here! Techkriti brings to you its flagship event, Robocad. Witness the brightest engineers in India build the mightiest monsters which shall unleash Armageddon!
- **Mandakini:** The annual fest of Astronomy Club with Techkriti going to be held this year. Test your knowledge of astronomy, space, and science with this amazing quiz-based event which will be based on a set of intriguing questions related to space.
- **Embedded:** This Event poses a challenge to the students of the electronics community, to create a device that sends real-time data of the body parameters to the physician through the Internet, through the help of embedded systems. Embedded systems design is a productive synergy between hardware and software design.
- **Industry Institute Interaction:** III presents you with a wonderful platform where you can showcase your innovative ideas in the form of a model, prototype, patent, cool apps, or any software product in front of an elegant Panel of Judges
- **Entrepreneurial Events:**
  - Upstart Pioneer
  - Last Pitch Effort
  - Pitch Premium

## ALL EVENTS

Category	Competition
Robogames	IARC RoboCad Manoeuvre
ECDC	Stress Overloaded Embedded Networks on Street
Takeoff	Creativol Pero-fortio
Business	Sub Operati Best Manager Battlefield
Software	IOPC Speed Quant ML Hackathon Data analytics Challenge
Entrepreneurial	Upstart Pioneer Last Pitch Effort Pitch Premium
Fintech	Stock Pitch Beat the Market

Mun	Lok Sabha UNSC UNDP
Mandakani	Astro Treasure Observe Analyse Solve Astro Quiz
Design	Autodesk Design Challenge
Technovation	Industrial technovation challenge

## TECHNOCRUISE

Technocruise is the pre-festival zonal round of Techkriti which aims to instill technical fervor and provide exceptional science and technology exposure to college students across India through a series of preliminary rounds of major technical competitions, workshops, events and talks by prominent technical leaders.

Technocruise this year contained prelims of events, talks, and workshops.

### **ZONALS CITY:**

1. Ujjain
2. Lucknow
3. Chhatisgarh
4. Jaipur
5. Jalandhar

### **Workshops:**

1. Android Development
2. Robotics
3. Ethical Hacking
4. Machine learning
5. Python Programming

## TECHKRITI OPEN SCHOOL CHAMPIONSHIP

Techkriti Open School Championship is an annual school aptitude examination for classes 6th to 12th. It is an initiative taken by Techkriti'22 to bring a core spirit of innovation to the grassroots level.

The championship consists of two phases in which the students participate individually. The first phase is conducted in English and is open to all enthusiastic students from classes 6th to 12th. The students will be divided into three pools Pool A, Pool B, and Pool C. Pool A will consist of students of 6th to 8th, Pool B will consist of students of 9th and 10th and Pool C will consist of students of 11th and 12th. The first round consists of a 60 min written exam, broadly comprising of objective-type questions on Mental ability, aptitude, puzzles, and general awareness.

**Round 1:** Around 5000 students participated in the first round of TOSC (26th December 2021)

**Round 2:** A total of 100 students from Pool B and Pool C were selected for the next round (16th January 2022).

The winners as well as the first and second runner-ups from each pool got Prizes like smartwatches, tablets, etc

#### **CITIES:**

1. Kanpur
2. Lucknow
3. Allahabad
4. Kota
5. Jhansi
6. Jhunjhunu
7. Hisar
8. Indore
9. Mahwa
10. Jaipur
11. Mathura
12. Varanasi
13. Delhi
14. Kolkata
15. Bhopal
16. Gwalior
17. Bandha
18. Gorakhpur
19. Ghaziabad
20. Bharuch



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## WORKSHOPS

- Data Analytics
- Artificial Intelligence
- Cryptocurrency
- Artificial Reality
- Deep Learning
- Internet of things
- Humanoid Robotics
- Python
- Web Development
- Android Development
- Ethical Hacking and Cyber Security
- Startup and Entrepreneurship
- Amazon Web Services

## TALKS

Kurt Wuthrich	Kurt Wüthrich is a Swiss chemist/biophysicist and Nobel Chemistry laureate, known for developing nuclear magnetic resonance methods for studying biological macromolecules.
Prof. Muhammad Yunus	Muhammad Yunus is a Bangladeshi social entrepreneur, banker, economist, and civil society leader who was awarded the Nobel Peace Prize for founding the Grameen Bank and pioneering the concepts of microcredit and microfinance.
Thomas Kurian	Thomas Kurian is the chief executive officer of Google Cloud, which he joined in January 2019, and a former senior executive at Oracle Corporation.
Ali Lemus	Ali Lemus is the Director of Research & Development in Computer Science at Universidad Galileo. Master in Applied Information Sciences (University Of Tohoku, Japan 2009). Researcher in Artificial Intelligence and Neural Networks in Intelligent Nano Integration Systems(Japan,2007).
Viral Shah	Viral B Shah is an Indian computer scientist, best known for being a co-creator of the Julia programming language. He was also actively involved in the initial design of the Aadhaar project in India.





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Robert Metcalfe	Robert Melancton Metcalfe is an engineer and entrepreneur from the United States who helped pioneer the Internet starting in 1970. He co-invented Ethernet, co-founded 3Com, and formulated Metcalfe's law, which describes the effect of a telecommunications network.
Gautam Khanna	Gautam Khanna, an IITK alumnus, joined PD Hinduja Hospital and Medical Research Centre as a CEO bringing over 26 years of extensive industry experience to the Hinduja Group. As the CEO, he endeavors to achieve Hinduja's dream of virtual healthcare by impactful innovation and creating synergies with leading international institutes.
Sahej Rahal	Sahej Rahal was born in Mumbai. He graduated from Rachana Sansad Academy of Fine Art, Mumbai. He has been a recipient of many prestigious international residencies and won the Forbes Award for Debut Solo Show, in 2014.
Susan Blackmore	Susan Jane Blackmore is a British writer, lecturer, sceptic, broadcaster, and Visiting Professor at the University of Plymouth. Her fields of research include memetics, parapsychology, consciousness, and she is best known for her book The Meme Machine.
Sankar Kumar Pal	Sankar Kumar Pal is a computer scientist and former Director of the Indian Statistical Institute, Kolkata. He is a computer scientist with an international reputation in fuzzy neural networks, soft computing, and machine intelligence.
Bjarne Stroustrup	Bjarne Stroustrup is a Danish computer scientist, most notable for the invention and development of the C++ programming language. He is a visiting professor at Columbia University, and works at Morgan Stanley as a managing director in New York.
Jacob Singh	He is CTO Sequoia Capital and ex-CTO of Grofers an online grocery delivery company in New Delhi.



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**SHOWS:**

**Comedy Night - Sahil Shah**



**Bollywood Night – SHAAN**

