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# Ingenium'22, The Technology Festival

April 8-10, 2022



Organisers:

**Team Ingenium'22**

Venue:

**School of Engineering and Applied Science, Ahmedabad University  
Central Campus, Navrangpura**



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## INTRODUCTION

*Technology is best when it brings people together.*

- Matt Mullenweg, CEO, Automattic, and Co-Founder, Wordpress

Ingenium, Ahmedabad University's biggest technological festival, was back this year with a plethora of incredible workshops, events, talks, hackathons, and competitions. Started in 2016, Ingenium offers students the opportunity to showcase their technical skills and innovative ideas. It is a platform to test their calibre while maintaining a healthy and competitive spirit. It inculcates core values of the University: project-based learning and multidisciplinary approaches to real-life problems. This year, Ingenium marketed its events and sponsors at India's major technological institutes with an overwhelmingly positive response. Organised between April 8-10, along with a series of workshops conducted in the run-up to the fest, Ingenium'22 was bigger, better and bolder.



## Event-Wise Participation

Ingenium'22 comprised 28 events, receiving around 1500 registrations, 1300 attendees, and a unique footfall of 900.

| Event                  | Participants | Event                           | Participants |
|------------------------|--------------|---------------------------------|--------------|
| Codefi                 | 100          | Hackathon                       | 189          |
| Kaggle Competition     | 60           | Mechathon                       | 52           |
| Tech-Ingo              | 36           | Chemathon                       | 74           |
| Enigmatic Hunt         | 120          | MATLAB workshop                 | 132          |
| Chem-E-Buzz            | 24           | Hands On Blockchain             | 113          |
| Chem-Mystery           | 28           | Autolisp                        | 20           |
| Chemical Hunt          | 52           | Contributing to Open Source     | 189          |
| CNC Machining Workshop | 46           | Data Science Session            | 189          |
| Break It! Fix It!      | 45           | Full Stack: Hands on Session    | 189          |
| Construct-O-Mania      | 12           | Kickstart to Web Development    | 156          |
| Kuka Robot Workshop    | 20           | Chem-E-Snake                    | 33           |
| BGMI                   | 164          | E-Treasure Hunt                 | 95           |
| Valorant               | 151          | Comedy Night by 'Piyush Sharma' | 200          |



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|                              |      |             |    |
|------------------------------|------|-------------|----|
| Open Mic                     | 17   | Alumni Meet | 40 |
| Total Registrations          | 1300 |             |    |
| Total Attendees              | 1500 |             |    |
| Unique Footfall              | 900  |             |    |
| Online Unique<br>Footfall    | 550  |             |    |
| On-Campus Unique<br>Footfall | 350  |             |    |



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## Participating Institutes' List

We received a tremendous response from over **51 colleges** across Gujarat and other states. Promotional activities had been carried out by establishing registration desks, appointing campus ambassadors and putting up posters.

List of institutes with the highest participants:

|  |   |   |   |
|--|---|---|---|
| AD Patel Institute of Technology, Anand                  | Dr Subhash Technical Campus, Junagadh                   | KB Raval College of Pharmacy, Gandhinagar               | SAL College of Engineering, Ahmedabad                 |
| Adani Institute of Infrastructure Engineering, Ahmedabad | GIT, Gandhinagar  | Karnavati University, Gandhinagar                       | SAL Engineering & Technical Institute, Ahmedabad      |
| College of Agricultural Information Technology, Anand    | Ganpat University, Mehsana                              | Khyati School of Engineering, Ahmedabad                 | SAL School of Architecture, Ahmedabad                 |
| Silver Oak College, Ahmedabad                            | GLS, Ahmedabad  | The KPES College, Bhavnagar                             | SCET, Surat   |
| Agrawal Vidya Vihar, Surat                               | GEC, Modasa   | LD College of Engineering, Ahmedabad                    | Shantilal Shah Engineering College, Bhavnagar         |
| AMCMET Dental College, Ahmedabad                         | Gujarat Law Society, Ahmedabad                          | LJ Institute of Engineering & Technology, Ahmedabad     | RK University, Rajkot                                 |
| Bhagwan Mahavir College of Architecture, Surat           | Gujarat Power Engineering & Research Institute, Mehsana | Marwadi University, Baroda                              | Jadavpur University, Kolkata                          |
| BSE Institute, Mumbai                                    | HL Commerce College, Ahmedabad                          | New LJ Institute of Engineering & Technology, Ahmedabad | VVP Engineering College, Rajkot                       |
| DAIICT, Gandhinagar                                      | IHM, Goa  | NMIMS, Mumbai   | Vishwakarma Government Engineering College, Ahmedabad |



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|  |   |   |  |
|--|---|---|--|
| AD Patel Institute of Technology, Anand                        | Dr Subhash Technical Campus, Junagadh                   | KB Raval College of Pharmacy, Gandhinagar               | SAL College of Engineering, Ahmedabad            |
| Adani Institute of Infrastructure & Engineering, Ahmedabad     | GIT, Gandhinagar  | Karnavati University, Gandhinagar                       | SAL Engineering & Technical Institute, Ahmedabad |
| College of Agricultural Information Technology, Anand          | Ganpat University, Mehsana                              | Khyati School of Engineering, Ahmedabad                 | SAL School of Architecture, Ahmedabad            |
| Silver Oak College, Ahmedabad                                  | GLS, Ahmedabad  | The KPES College, Bhavnagar                             | SCET, Surat                                      |
| Agrawal Vidya Vihar, Surat                                     | GEC, Modasa   | LD College of Engineering, Ahmedabad                    | Shantilal Shah Engineering College, Bhavnagar    |
| AMCMET Dental College, Ahmedabad                               | Gujarat Law Society, Ahmedabad                          | LJ Institute of Engineering & Technology, Ahmedabad     | RK University, Rajkot                            |
| Bhagwan Mahavir College of Architecture, Surat                 | Gujarat Power Engineering & Research Institute, Mehsana | Marwadi University, Baroda                              | Jadavpur University, Kolkata                     |
| BSE Institute, Mumbai  | HL Commerce College, Ahmedabad                          | New LJ Institute of Engineering & Technology, Ahmedabad | VVP Engineering College, Rajkot                  |
| Darshan Institute of Engineering & Technology, Rajkot          | IIT, Guwahati   | PDEU, Gandhinagar                                       | VIT, Vellore                                     |
| Department of Animation & ITIMS, Gujarat University, Ahmedabad | IIIT, Kota  | PDPU, Gandhinagar                                       | Nirma University, Ahmedabad                      |
| DDU, Nadiad  | Indus University, Ahmedabad                             |   |  |



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## Inauguration: Ingenium'22

**Date:** April 7, 2022

**Time:** 5:00 pm onwards

**Venue:** GICT Courtyard, GICT Building

The inaugural ceremony of Ingenium'22 set the tone for the technological extravaganza that was to follow. Spurred on by words of encouragement by Vice Chancellor Pankaj Chandra, Dean of School of Engineering and Applied Science, and Dean of Students and Associate Dean, School of Engineering and Applied Science, Sanjay Chaudhary, our budding engineers were raring to go. The highlight of the evening was undeniably 'Thunder Drift', the remote-controlled car race between working models of cars created by teams from the Mechathon Competition. The entire GICT Courtyard had been transformed into a car race track. The race electrified the whole atmosphere and Ingenium'22 was kicked off.



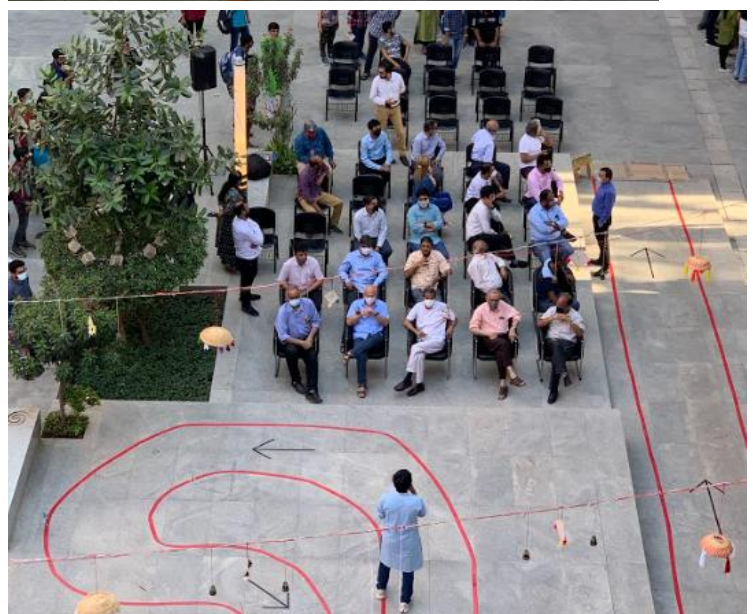
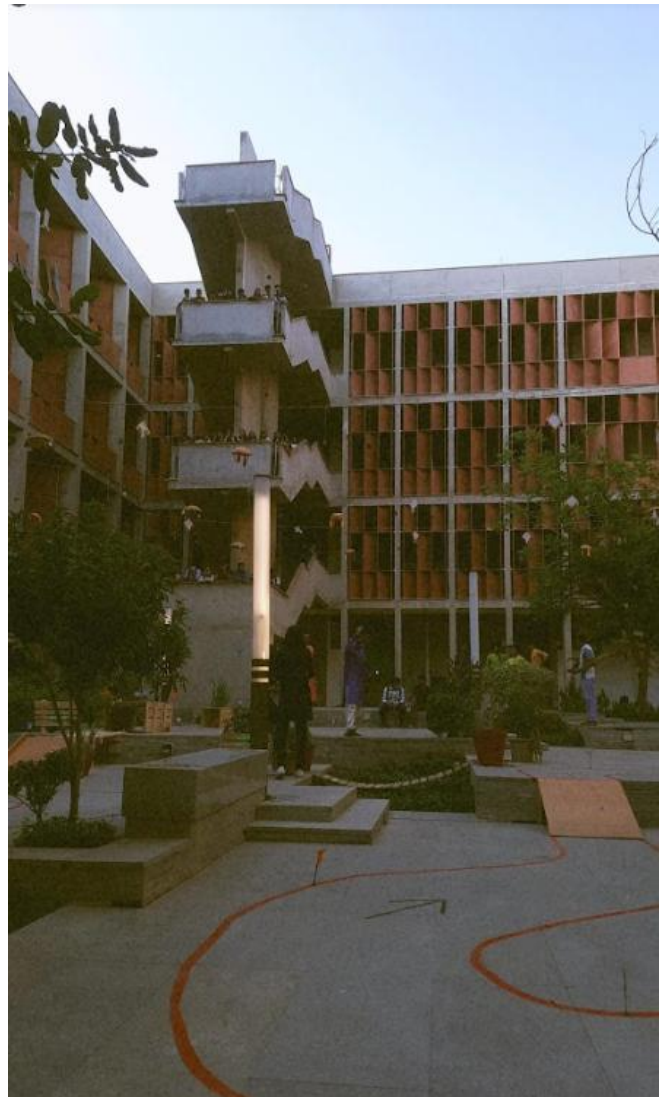




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## WORKSHOPS

- **Kickstart to Web Development**

**Date:** February 27, 2022

**Time:** 11:00 am - 12:30 pm

**Facilitators:** Jay Mehta and Tirth Patel

**Number of participants:** 156

This session provided students with an insight into the world of web development and introduced them to its various technicalities. For students who are interested in web development and want to explore the field, it was a mine of information. Third year students Jay Mehta and Tirth Patel, BTech with Major in Computer Science and Engineering, were the speakers for the event.



- **MATLAB Workshop**

**Date:** March 20, 2022

**Time:** 10:00 am - 12:00 pm



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**Facilitator:** Dr Ruchi Gajjar

**Number of participants:** 72

MATLAB is a programming platform that allows engineers and scientists to assess and build world-changing systems and products. It allows for easier graph drawing, large-scale problem solution, and arithmetic simplification. The session covered the fundamentals of MATLAB from the ground up, laying the groundwork for combining codes and chemicals. Dr Ruchi Gajjar, Assistant Professor, Nirma University, helped students to know about MATLAB and its many applications.

- **Hands-on Blockchain**

**Date:** March 23, 2022

**Time:** 2:30 pm - 4:00 pm

**Facilitators:** Manav Darji, Meet Modi and Shyam Patel

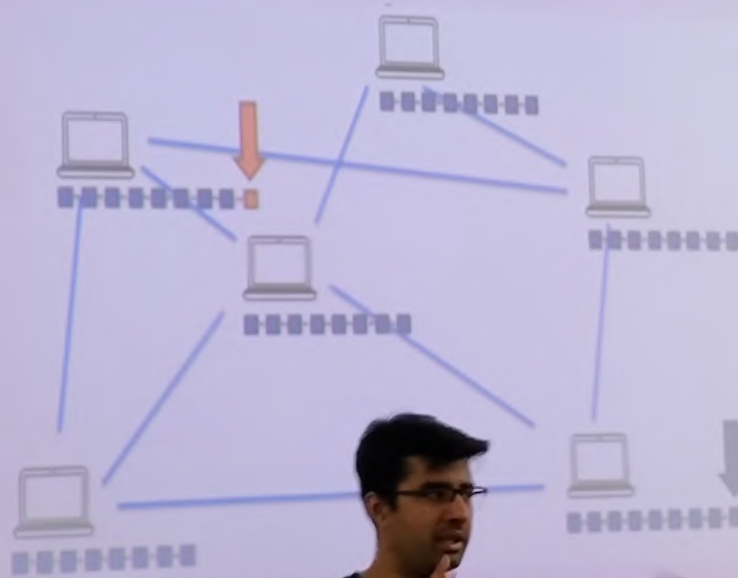
**Number of participants:** 113

Blockchain is a revolutionary technology that enables decentralised and transactional data exchange over a large network of potentially untrustworthy individuals. It's a cutting-edge distributed ledger system that stores verification data for transactional records in blocks that are cryptographically protected against manipulation. Manav Darji, Blockchain Engineer, Polygon, Meet Modi, Backend Developer, CoinDCX, and Shyam Patel, SE, Razor Network, guided participants through this session.



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## The P2P Network







- **AutoLISP  
Workshop**

**Date:** March 27, 2022

**Time:** 10:00 am onwards

**Facilitator:** Jitendra Sitlani

**Number of participants:** 72

AutoLISP is a programming language whose functions are similar to those of AUTOCAD but which is significantly powerful and fast. We can construct customised CAD commands using AutoLISP to conduct activities and generate the necessary output. Jitendra Sitlani, head of the fabrication workshop at Ahmedabad University, guided students and familiarised them with AutoLisp, highlighting its usefulness for creating real-life mechanical and engineering designs on the AutoCAD 3D software.





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- **Contributing to Open Source**

**Date:** March 26, 2022

**Time:** 11:00 am onwards

**Facilitators:** Kaushal Patil and ArpitSinh Vaghela

**Number of participants:** 189

This session aimed at introducing students to the various ways through which one can contribute to open source and thereby solve real-life problems and gain experience in the domain. It was facilitated by Kaushal Patil and ArpitSinh Vaghela, final year students of BTech with Major in Information and Communication Technology.



- **Data Science Session**

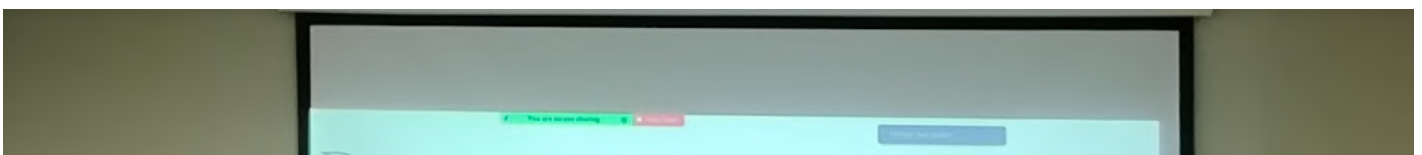
**Date:** March 26, 2022

**Time:** 5:00 pm onwards

**Facilitator:** Anith Patel

**Number of participants:** 189

Data is the basic block of the technology industry, and the field of Data Science plays a pivotal role in the extraction and management of data. This session provided an overview of the domain and explained its application in the industry. The session was conducted by Anith Patel, CTO of VisloT Technologies.







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- **Full Stack Development**

**Date:** March 27, 2022

**Time:** 10:00 am onwards

**Facilitator:** Praveen Kumar

**Number of participants:** 189

React and Node are two important parts of the JavaScript language that simplifies the process of backend development and provides a lot of functionalities. This workshop gave students an overview of React and Node. It was conducted by Mr Praveen Kumar, Full Stack JS Developer and Guinness Record holder for Hackathon Hunter.



## Ingenious Hackathon

**Date:** March 26-27, 2022

**Time:** 8:00 am (March 26) to 8:00 pm (March 27)

**Number of Participants:** 189

Ingenium'22 was back on campus after two years of being in the online mode and so was our fiercely competitive Ingenious Hackathon. This event is 36 hours of pure programming skills at

work, a competition that gives rise to new ideas and mind-bending projects. The Hackathon hosted several upcoming developers from across the state catering to a variety of fields including healthcare, open source, fintech, business, and more. The motive of the event was to instil entrepreneurial thinking in the minds of young engineers.



## Ingenious Mechathon

**Date:** April 2-3, 2022

**Time:** 9:00 am (April 2) to 9:00 pm (April 3)

**Number of participants:** 52

Ingenious Mechathon makes Ingenium the tech-fest it is - by rigorously putting to test the mechanical minds of participants. This year too, it was a 36-hour long competition challenging





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participants on their problem-solving aptitude. The objective of the event is to find solutions to problems and discover the real problems behind the existing ones.



## **Ingenious Chemathon**

**Date:** April 2-3, 2022

**Time:** 9:00 am (April 2) to 9:00 am (April 3)

**Number of participants:** 74



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Ingenious Chemathon was a 24-hour competition that compelled participants to brainstorm problems that are not just focused in the laboratory but beyond that. This event was a stepping stone in the industrial journey of participants as they got an opportunity to develop a thought process for how things are done in the real world.



**DAY 1: INGENIUM'22 (APRIL 8, 2022)**



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- **Kuka Robot Workshop**

**Date:** April 8, 2022

**Time:** 9:00 am to 12:00 pm

**Number of participants:** 20

**Facilitator:** PProfessor Jaina Mehta

With Robotics being a booming sector, Professor Jaina Mehta from Ahmedabad University presented a session on the Kuka robot designed by her. Participants learned about a variety of new topics and gained hands-on experience with the robot itself. The Kuka robot is a fully automated, technologically advanced industrial intelligence robot that is programmed and manufactured to quickly and easily integrate into existing concepts and ensures sustainable, high-performance manufacture. It is a direct connection between humans and machines. By setting the references into the robot, it can automatically manage tasks like designing, packaging, material handling, loading, and unloading. Combined with cutting-edge software and innovative controllers, it is developed to ease the manufacturing processes.



- **Break It, Fix It**





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**Date:** April 8, 2022

**Time:** 12:30 pm to 3:00 pm

**Number of participants:** 45

All of us have definitely experienced the ‘engineer sensation’ when we first dismantled something and reassembled it. This challenge urged competitors to do just that, putting not just their memory to test but also their understanding of how a device and its components work.



- **Chem-E-Snake**

**Date:** April 8, 2022

**Time:** 3:30 pm to 5:30 pm

**Number of participants:** 33

This event brought back some nostalgic memories as participants had to play ‘Snakes and Ladders’ to win. There was definitely a twist; they had to first answer some basic chemistry questions and get them right to move! Participants had a great time and learned a lot about chemicals.



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- **Valorant**

**Date:** April 8, 2022

**Time:** 6:00 pm onwards

**Number of participants:** 151

This event had the attention of all the gamers in the University. Valorant is a futuristic team-based first-person hero shooter game that offers all gamers the chance to broaden their gaming horizons. The participants competed for 13 rounds and the first ones to clear them were declared winners!

- **Open Mic**

**Date:** April 8, 2022

**Time:** 6:00 pm onwards

**Number of participants:** 17



The evening of Open Mic was all about bringing the stage to those who feel alive while performing. Starting off with a lively stand-up comic act, it went on to participants showcasing their talent like singing, performing poetry, instrumental music, and many more. Later, there was an audience poll conducted to decide the top 3 performances. The vibrant evening came to an end with a round of the Gujarati folk dance garba, making it an evening dedicated to the art of performing.





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## DAY 2: INGENIUM'22 (APRIL 9, 2022)

- Enigmatic Hunt

**Date:** April 9, 2022

**Time:** 9:00 am to 11:00 am

**Number of participants:** 120

One of the most exciting events of Ingenium'22 was the Enigmatic Hunt, which involved hunting down puzzles hidden all across the Campus and solving them. The quickest 'hunters' were declared winners.







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- **CHEM-E-BUZZ**

Date: April 9, 2022

Time: 11:30 am to 2:00 pm

Number of participants: 24

Chem-E-Buzz was the perfect quizzing platform for those who had every little chemistry detail at their fingertips. Answers kept flying off before the quizmaster could even finish asking the question.



- **BGMI**

Date: April 9, 2022

Time: 5:00 pm

Number of participants: 164

BGMI is the biggest free-to-play online multiplayer battle royale game. We just can't miss out on having the biggest combat match to test out the mastery of our participants' shooting and aiming. This event tested and demonstrated the gaming talent of every type of player whether aggressive or a camper or a newbie or a pro. It was an incredible opportunity to expand your BGMI squad, make it to the end circle and possibly have the 'WINNER WINNER CHICKEN DINNER'!

- **E-Treasure Hunt**

**Date:** April 9, 2022

**Time:** 2:30 pm to 4:30 pm

**Number of participants:**

This event helped participants work together in small groups to uncover treasures using the clues provided. Surfing through the links and solving clues in groups helped participants to use and enhance their technical skills, and polish their critical thinking mindset.





- **Alumni Meet**

**Date:** April 9, 2022

**Time:** 7:00 am to 8:30 pm

**Venue:** GICT Auditorium

Participants interacted with alumni of Ahmedabad University to comprehend life after the University. It was a fulfilling experience for Ahmedabad Alumni who used this opportunity to give back to the University, while young students received much-sought career advice from their seniors who are professionally well placed.



## DAY 3: INGENIUM'22 (APRIL 10, 2022)

- Codefi

**Date:** April 10, 2022

**Time:** 2:00 am to 5:00 pm

**Number of participants:** 100

Codefi was an amazing problem-solving challenge for Ahmedabad students as well as those from other universities. It helped the participants to spruce up their programming skills by providing them with some exciting problems to solve. The purpose of this event was to help students develop a logical mindset and give them complex and exciting real engineering problems to brainstorm over.





- **Tech-Ingo**

**Date:** April 10, 2022

**Time:** 11:30 am to 2:00 pm

**Number of participants:** 36

Tech-Ingo was the much-loved bingo with a technical twist to it. It was the perfect game where participants had to solve problems to cross out boxes. Quick thinking coupled with precise problem-solving abilities would win you the game.



- **Construct-O-Mania**

**Date:** April 10, 2022

**Time:** 2:00 pm to 5:00 pm

**Number of participants:** 12

Construct-o-Mania was all about the crux of mechanical engineering, building and mechanising. Participants were given a bunch of ice cream sticks and were asked to build a model of a given design. With a few tests filtering out the best, this turned out to be the best place to get hands-on experience in the field.







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- **Chem-Mystery**

**Date:** April 10, 2022

**Time:** 2:00 pm to 4:30 pm

**Number of participants:** 28

Solving mysteries with a chemical spin on them was certainly what the participants wanted when they signed up for Chem-Mystery. Mysteries were unravelled, the knowledge of chemistry was dipped into and prizes were won.

- **Chemical Hunt**

**Date:** April 10, 2022

**Time:** 9:00 am to 11:00 am

**Number of participants:** 52

This one was for all the Sherlocks out there waiting for an exciting experience. The chemical treasure hunt started off with a clue around a chemical which could be found on the Ahmedabad Campus. The eyes that spotted it were the winners.

- **DJ Night**

**Date:** April 10, 2022

**Time:** 8:30 pm onwards

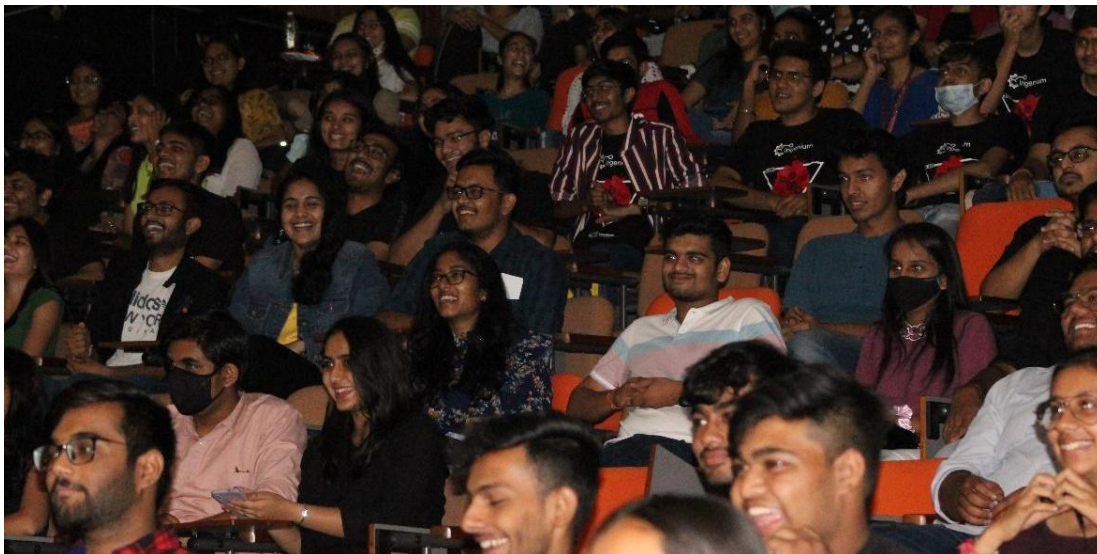
With Ingenium'22 wrapped up successfully, it was finally time for everyone to let their hair loose. Months of rigorous efforts to organise one of the biggest tech fests in the city ended with a DJ night organised in the GICT Courtyard following the performance by stand-up comic Piyush Sharma.



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## Comedy Night with Piyush Sharma

As Ingenium'22 drew to an end, it was time for the most awaited performance of the tech fest - an act by famous stand-up Piyush Sharma. Himself an engineer from IIT Bombay, Piyush knew the highs and lows of an engineering education so well that he hit it right off with the 150-strong crowd. The perfect, hilarious end to three days of thrilling engineering mania.







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## Media Coverage

The fest has been covered by various media sources, external as well as internal. Following are glimpses of the same:

| No. | Name (Click for Link Redirection)   |
|-----|---|
| 1.  | Ahmedabad Mirror (Article)  |
| 2.  | Official Website<br><a href="https://techingenium.org/">https://techingenium.org/</a> |
| 3.  | <a href="#">Official Instagram Page</a>   |





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## Snaps of Media Coverage:

- Article published in Ahmedabad Mirror



Ingenium 2022', Ahmedabad University's biggest technological festival, was recently held on campus with students showcasing their techno prowess in a range of events, talks, hackathons, and competitions. The aim was to provide a platform for "masterminds" to enhance their tech skills and display their talent. Events like Kaggle Competition, Kuka Robot workshop, Chem-e-Snake, Enigmatic Hunt, Constructomania and more were organised in the three-day festival. Here are some glimpses from the fest.

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## CAMPUS HAPPENINGS

Want your college and its activities to be featured in this section? All you need to do is mail us in advance with 'College happenings' in the subject line. Mail on [ahmedabadspeaks@gmail.com](mailto:ahmedabadspeaks@gmail.com) or WhatsApp on 08320530590 along with your Institute's name, your name and contact details.



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## The Team

- ❖ Dr Akhand Rai (Faculty Mentor)
- ❖ Dr Jayendra Bhalodiya (Faculty Mentor)
- ❖ Ankit Devani (Head)
- ❖ Viraj Boghani (Head)
- ❖ Kashish Jivani (Secretary)
- ❖ Neel Popat (Treasurer)
- ❖ Aditi Vasa (Content Head)
- ❖ Kenil Gondaliya (Design Head)
- ❖ Krunal Savaj (Registration and Marketing Head)
- ❖ Neel Popat (Sponsorship Head)
- ❖ Jay Mehta (Events Team, Computer Science and Engineering)
- ❖ Jainil Siddhapura (Events Team Mechanical)
- ❖ Saurav Panjvani (Events Team Chemical)
- ❖ Neel Popat (Logistics Head)
- ❖ Anshi Shah (Social Media Head)
- ❖ Yash Longani (Hackathon Head)
- ❖ Jainil Siddhapura (Mecathon Head)
- ❖ Saurav Pajvani (Chemathon Head)

## Exceptional Volunteers

- ★ Devanshi Shah (Applauded as the 'Best Volunteer')
- ★ Kavan Gondaliya (Applauded for being the 'Best Coordinating Member')



## Glimpses from Ingenium'22







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## Summary

Ingenium'22 was a colossal get together of passionate engineers around the city. Members of the organising committee had to work in tandem with each other and put their multitasking skills to use to manage this large-scale event. The tech fest and the workshops held in the run up to it were a rich learning experience for not just the attendees but also the organisers, including faculty, leaders, and volunteers. Every passing year, creates more efficient leaders and interdisciplinary thinkers through the planning and execution at Ingenium. The organising team like always has been successful in putting in place all of the necessary plans and arrangements to ensure that Ingenium'22 flourished enormously. The team is now ready to pass the torch on to the new batch that is waiting in anticipation.

The team looks forward to the much-valued feedback from the management and expresses its gratitude for their unwavering support.