



**Ahmedabad
University**

Ingenium 2023, The Annual Tech-Fest

February 3-5, 2022

Organisers:

Team Ingenium 2023

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.”

Ingenium, Ahmedabad University's biggest technological festival, was back with a bang 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 the 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 February 3 to 5, along with a series of workshops conducted in the run-up to the fest, Ingenium 2023 was the best it has witnessed so far.

Event-Wise Participation

Ingenium 2023 comprised 24 events, receiving around 1500 registrations, 1300 attendees, and a unique footfall of 900.

Event	Participants	Event	Participants
Hackathon	200 (offline) 400+ (online)	Valorant	200
Mechathon	45	BGMI	250
UI/UX Workshop	140	Clash Royale	150
AR/VR Workshop	120	Aim 4 Chem	50
GitHub Workshop	200	Chem-E-Cross	75
DeMystifying DevOps	200	Buzz Fest	75
The Web3 Workshop	200	Scavenger Hunt	250
Kaggle	70	Sticktastic Structures	100
Codefi	150	Wild Shot	100
Coding Chakravyu	100	DJ Night	300
E-Treasure Hunt	200	Mallika Mehta Night	100
Hera Pheri	150	Samay Raina	500
Total Registrations	1500		
Total Attendees	1200		
Unique Footfall	850		
Online Unique Footfall	200		
On-Campus Unique Footfall	650		

Participating Institutes' List

We received a tremendous response from colleges in Pakistan, Spain, Nigeria, United States, Russia, Germany, Nepal and over **51 colleges** across Gujarat and other states of India. Promotional activities had been carried out by establishing registration desks, appointing campus ambassadors, and putting up posters.

List of institutes with the highest participants:

Nirma University, Ahmedabad	Indus University, Ahmedabad	DDU, Nadiad	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
Darshan Institute of Engineering & Technology, Rajkot	IIT, Guwahati	PDEU, Gandhinagar	VIT, Vellore

Inauguration: Ingenium 2023

Date: February 3, 2023

Time: 10:00 AM onwards

Venue: GICT Courtyard, GICT Building

The opening ceremony of Ingenium 2023 set the tone for the subsequent technical spectacle. Our aspiring engineers were fired up by the words of support from Vice Chancellor Pankaj Chandra, Dean of the School of Engineering and Applied Science, Dean of Students, and Associate Dean of the School of Engineering and Applied Science, Sanjay Chaudhary. The second version of the most anticipated event - "Thunder Drift " a remote-controlled vehicle race between working models of cars made by teams from the Ingenious Mechathon 3.0, was the highlight of the evening. The GICT Courtyard as a whole had been changed into a racetrack. The race energised everyone present, and Ingenium 2023 began.





Workshops

- **AR/VR Workshop**

Date: 25th January 2023

Time: 2:00 PM to 4:00 PM

Facilitator: Dhiraj Poojara

Number of participants: 120

Dhiraj Poojara conducted an exciting workshop on AR/VR at Ingenium, providing an overview of the latest technologies and trends in the field. He demonstrated how AR/VR can be used to create immersive and interactive experiences in various industries, including gaming, education, and healthcare. Participants had the opportunity to create their own AR/VR projects using cutting-edge tools and software. Through hands-on activities and real-world examples, attendees gained valuable insights into the potential of AR/VR and how it can be used to solve complex problems. Overall, the workshop was a great way to learn about this exciting technology and its possibilities for the future.



- **UI/UX Workshop**

Date: 22nd January 2023

Time: 1:00 PM to 2:30 PM

Facilitators: Rahul Singh Bhadoriya

Number of participants: 140

Rahul Singh Bhadoriya led an engaging workshop on UI/UX design at Ingenium, teaching attendees about the principles and best practices of user-centred design. He emphasised the importance of understanding user needs and behaviours in order to create effective designs that are both aesthetically pleasing and user-friendly. Through hands-on activities and case studies, participants learned about design thinking, wireframing, prototyping, and usability testing. Overall, the workshop was a valuable learning experience for anyone interested in pursuing a career in UX design or looking to improve their design skills.



- **The Web3 workshop**

Date: 28th January 2023 (Hackathon)

Time: 5:30 PM

Facilitator: Sneha Mishra

Number of participants: 200

Sneha Mishra led an informative workshop on Web3 at Ingenium, providing an overview of blockchain technology and its potential applications. She explained how Web3 is different from Web2 and how it can be used to create decentralised applications that are secure and transparent. Participants had the opportunity to learn about smart contracts, decentralised finance, and non-fungible tokens (NFTs) through hands-on activities and real-world examples. Through her interactive presentation, Sneha also discussed the challenges and opportunities of Web3 and how it can be used to empower individuals and communities. Overall, the workshop was a great way to learn about this emerging technology and its potential impact on the future of the internet.

- **DeMystifying DevOps**

Date: 29th January 2023 (Hackathon)

Time: 10 AM

Facilitator: Yash Patel

Number of participants: 200

Yash Patel conducted an informative workshop on DevOps at Ingenium, providing an overview of the DevOps methodology and its benefits. He explained how DevOps can help organisations achieve faster and more reliable software delivery through collaboration and automation. Participants had the opportunity to learn about the key principles of DevOps, including continuous integration, continuous delivery, and infrastructure as code. Yash also discussed various tools and technologies used in DevOps, such as Jenkins, Docker, and Kubernetes, and provided hands-on experience in using them. Overall, the workshop was a great way to learn about DevOps and its potential impact on the software development process.

- **Github Workshop**

Date: 29th January (Hackathon)

Time: 9:00 AM

Facilitator: Vraj Desai

Number of participants: 200

Vraj Desai, one of the 25 GitHub expert campus ambassadors in India, conducted an informative workshop on GitHub at Ingenium. He provided an overview of the popular version control system and how it can be used for collaborative software development. Participants had the opportunity to learn about the key features of GitHub, including branches, pull requests, and issues, and how they can be used to manage projects effectively. Vraj also discussed best practices for using GitHub, such as committing often, writing good commit messages, and collaborating with others. Through hands-on activities and real-world examples, attendees gained valuable insights into how GitHub can be used to streamline the software development process. Overall, the workshop was a great way to learn about GitHub and its potential for collaborative software development.

Ingenious Hackathon 4.0

Date: January 28-29, 2023

Time: 8:00 am (January 28) to 8:00 pm (January 29)

Number of Participants: 1000+ Applications

Ingenium 2023 brought back the 4th version of the most anticipated and highly appreciated flagship fierce competitive Ingenious Hackathon. This event was a rollercoaster of 36 hours involved with 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. The hackathon consisted of several workshops so that the participants can become aware of today's technology and can sharpen their skills by interacting with industrial experts.



Ingenious Mechathon

Date: January 28-29, 2023

Time: 9:00 am (January 28)

Number of participants: 40+

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 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.



DAY 1: INGENIUM 2023 (February 3, 2023)

- Coding Chakravyu

Date: February 3, 2023

Time: 2:00 pm to 4:00 pm

Number of participants:

Coding Chakravyu was an ultimate coding competition with three rounds of different styles that put participants' competitive programming skills to test with exciting rounds of rush and thrill. The event had a tinge of Abhimanyu in chakravyu which made it really thrilling. Participants were able to learn new things while putting their existing skills to the test, which follows the motto of Ingenium.



- **Scavenger Hunt**

Date: February 3, 2023

Time: 3:00 pm to 5:00 pm

Number of participants:

Scavenger Hunt was a hunt that fed participants' their inner Jack Sparrow with a Tony Stark twist and Pirates of the Caribbean vibe! Presented with a list of items and tasks, participants had fun scavenging from different places on the central campus within a given time period leading to the victory. It was an interesting event with a mixture of movies and scavenger hunting.



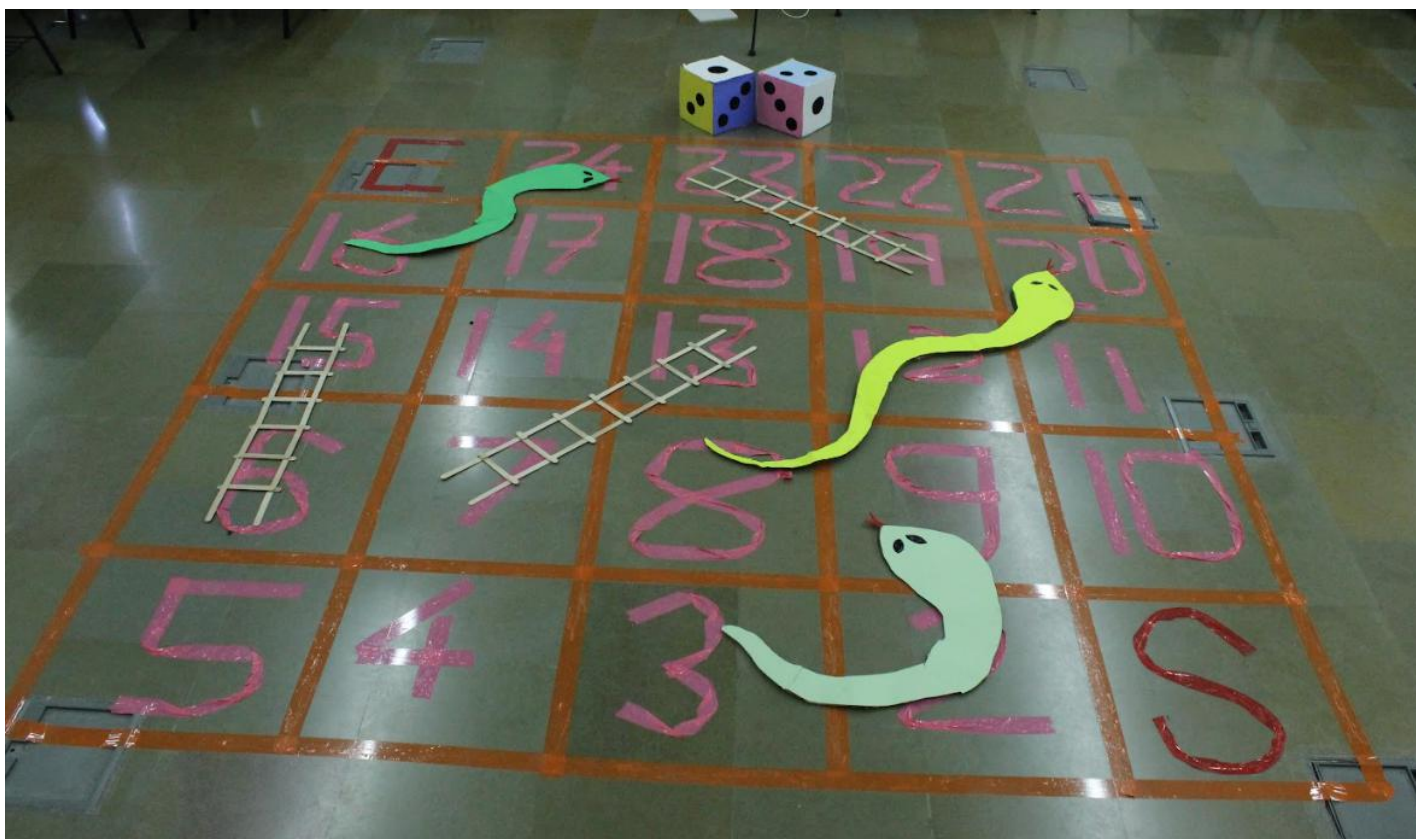
- **Chem-E-Cross**

Date: February 3, 2023

Time: 4:00 pm to 6:00 pm

Number of participants:

Chem E Cross was the right place for participants with the ability to find out the chemistry of words. Participants were given a question, which could be general chemistry-related or a mix of both. The key to victory was to solve the question and find the solution as soon as possible, as the clock is ticking! The participants had a great time and learned a lot about chemistry.



- **Valorant**

Date: February 3, 2023

Time: 1:00 pm to 2:00 pm

Number of participants:

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.

- **Codefi**

Date: February 3, 2023

Time: 8 am onwards

Number of participants:

Codefi was an amazing problem-solving challenge for Ahmedabad students as well as those from other universities. It helped the participants 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-world engineering problems to brainstorm over.

- **Kaggle**

Date: February 3, 2023

Time: 8 am onwards

Number of participants:

Kaggle brought all the data science, stats, or analytics freaks. Participants put their data science and machine learning skills to the test and solved the problems we provided. The event had a great turnout, and everyone tested, trained, and deployed their machine-learning models.

DAY 2: INGENIUM 2023 (February 3, 2023)

- Aim 4 Chem

Date: February 4, 2023

Time: 10 am to 12:00 pm

Number of participants:

Aim for Chem was an interesting chemistry event where participants' accuracy and knowledge guided them to the top. The combination of the difficulty and type of questions corresponding to the parts on the dart board helped participants sharpen their memory, and mark their sight to aim for the ultimate bullseye!



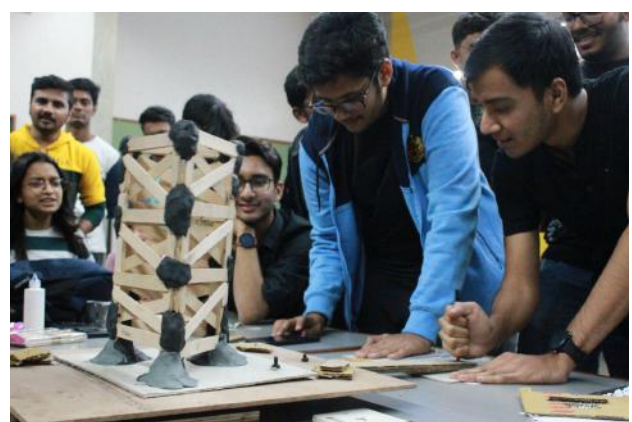
- **STICKASTIC STRUCTURES**

Date: February 4, 2023

Time: 1:00 pm to 4:00 pm

Number of participants:

Stick-tactic Structures gave participants a chance to build the strongest structure possible using only ice cream sticks and glue. Teams were given a specific amount of time to build their designs before facing the final test: an earthquake simulation! Using specialised equipment, there was a simulation of an earthquake to see which structures have the power to withstand the tremors. “Sticktastic Structure Champions” received a prize for their impressive creations. Participants had a great time playing with their creativity and constructing impressive models with only ice cream sticks.



- **HERA PHERI**

Date: February 4, 2023

Time: 3:00 pm to 5:00 pm

Number of participants:

The amalgamation of Hera Pheri in CSE is only possible when Ingenium is there! Participants put their accuracy, concentration, logical, and critical thinking skills into the ultimate showdown, where each of them was given a box randomly, and that's where the hera pheri began! The event was really insightful, enjoyable, and informative.



- **BGMI**

Date: February 4, 2023

Time: 6:00 pm to 7:00 pm

Number of participants:

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, 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'!

DAY 3: INGENIUM 2023 (APRIL 10, 2022)

- E-Treasure Hunt

Date: February 5, 2023

Time: 2:00 pm to 4:00 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 use and enhance their technical skills and polish their critical thinking mindset.



- **Buzz-Fest**

Date: February 5, 2023

Time: 10:00 am to 12:00 am

Number of participants:

Buzz fest was a place where participants were able to display their chemistry skills, test out their patience, and put all their fortitude to the test. Participants felt the best feeling of an adrenaline rush just when the quizmaster said the question and that moment when their fingers were itching to press the buzzer with a twist as well! Buzz-fest helped participants improve their technical and chemical knowledge, respectively.



- **Wild Shot**

Date: February 5, 2023

Time: 4:00 pm to 6:00 pm

Number of participants:

Participants had great fun building and destroying stuff with an epic build event that brought plenty of fun to show their building and brainstorming skills by constructing a catapult. Teams utilised their creative brainpower to build a working catapult that will launch a small object when completed. There are two launch phases to keep things interesting. The first phase is the launch-for-distance competition, while the second tests accuracy.



- **Clash Royale**

Date: February 5, 2023

Time: 6:00 pm to 7:00 pm

Number of participants:

Clash Royale Esports Tournament gathered the greatest of the best to compete and prove their mettle. This tournament brought together some of the top players in the world to compete for a chance at glory and a lucrative prize pool to face the ultimate clash and experience the battle of the age.

- **DJ Night**

Date: February 5, 2023

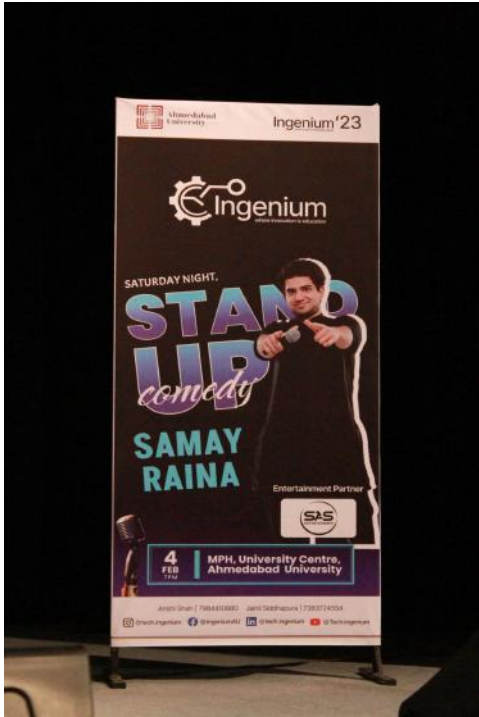
Time: 8:30 pm onwards

With Ingenium 2023 wrapped up successfully, it was finally time for everyone to let their hair down. Months of rigorous efforts to organise one of the biggest tech fests in the city ended with a DJ night organised by DJ NAC in the GICT Courtyard.

Comedy Night with Samay Raina

As Ingenium 2023 drew to an end, one of the most popular standup comedians, Samay Raina, performed at Ingenium. With his impeccable timing and witty humour, he had the audience in splits from the very beginning. He used his unique perspective to bring out the funny side of things. Overall, Samay Raina's performance was a fantastic addition to Ingenium, as he hit it right off with the 500-strong crowd to make the perfect and hilarious night of thrilling engineering mania.





The Team

- ❖ Dr. Akhand Rai (Faculty Mentor)
- ❖ Dr. Jayendra Bhalodiya (Faculty Mentor)
- ❖ Jainil Siddhapura (Head)
- ❖ Anshi Shah (Head)
- ❖ Kavan Gondalia (Secretary)
- ❖ Devanshi Shah (Treasurer)
- ❖ Maulik Ranadive (Content Head)
- ❖ Jevin Jivani (Design Head)
- ❖ Vedant Patel (Registration and Marketing Head)
- ❖ Devanshi Shah (Sponsorship Head)
- ❖ Priya Jani (Events Team, Computer Science and Engineering)
- ❖ Nihar Kaloliya (Events Team Mechanical)
- ❖ Vivek Sojitra (Events Team Chemical)
- ❖ Shaili Gandhi (Logistics Head)
- ❖ Heet Dedakiya (Social Media Head)
- ❖ Akshil Thumar (Hackathon Head)
- ❖ Deepraj Gohil (Gaming Head)
- ❖ Roshani Navdiya (Decoration Head)

Exceptional Volunteers

★ Best Coordinating Member

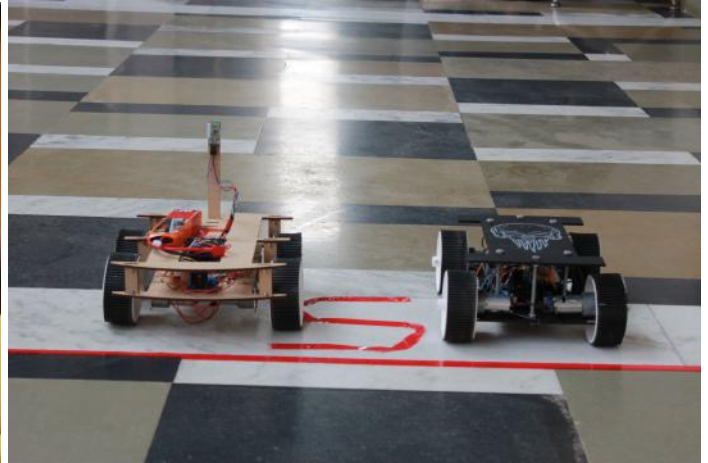
- Aayushi Shah
- Deval Darji
- Malhar Patel

★ Best Volunteer

- Dhruv Premani
- Dhyey Patel
- Hetav Shah

Glimpses from Ingenium 2023





Summary

Ingenium 2023 was a colossal get-together of passionate engineers around the city. Members of the organising committee worked hard 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 the attendees and the organisers, including faculty, leaders, and volunteers. Every passing year creates more efficient leaders and interdisciplinary thinkers through the planning and execution at Ingenium. Like always, the organising team has successfully put in place all of the necessary plans and arrangements to ensure that Ingenium 2023 flourished enormously. The team is now ready to pass the torch on to the new batch waiting in anticipation.

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