



ATHARVA EDUCATIONAL TRUST'S

ATHARVA COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by Government of Maharashtra

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7.2.21 Describe two best practices successfully implemented by the Institution.

BEST PRACTICE I

1. Title of the Practice : Techithon (An annual inter-collegiate Technical Festival)

2. Objectives of the Practice

- a. TECHITHON offers a platform for engineering students to showcase their technical skills and compete in identifying exceptional innovations and technology.
- b. The festival bridges the gap between future and current technologies by promoting cutting-edge advancements.
- c. TECHITHON fosters the development of new technologies for the benefit of future technocrats, encouraging peer and collaborative learning.
- d. It aims to revitalize existing technology to meet the changing needs of the next generation.

3. Context : Every year, Atharva College of Engineering organizes TECHITHON, a renowned intercollegiate technical festival. The primary objective of this event is to provide a platform for engineering students to demonstrate their technical prowess and drive technological progress. The festival garners significant attention and participation, offering an opportunity to showcase innovative technical projects. Additionally, it includes the highly esteemed Atharva Guest Lecture Series (AGLS) and active involvement in prestigious competitions such as SMART INDIA HACKATHON.

4. The Practice :

The TECHITHON is held at ACE, in 2018, 2019, 2021 and 2022. The theme of the event for 2022 was "ALCHEMIA - A DECADE OF UPGRADE." Insightful workshops by guest speakers on subjects such as defense technology and economic revolution were included in the event's technical festival. The college also put together Alchemia-Hacks, a 24-hour hackathon. A river cleaning boat, augmented reality kit, flight tracker, object detection programme, smart home system, and many more technical initiatives were displayed.

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The theme in 2021 was on "AUGMENTIA - THE FUTURE IS VIRTUAL." Due to the COVID-19 epidemic, the event was held online with the intention of inspiring and motivating students during the lockdown. It included a variety of fun and educational events, including paper presentations, brainteasers, gaming, and fitness competitions.

In 2019 the theme, "INNOVAZIA - REVAMPING TECH," was focused on closing the accessibility gap between new users and existing technology. The festival featured both technical and non-technical events, such as laser tag and treasure hunts, as well as robo wars, paper presentations, and blind coding. On topics like international studies, ethical hacking, and web development, seminars and workshops were also presented. Participants in the festival came from several technological institutes in Mumbai, and an Atharva College of Engineering HACKATHON was held for the first time.

The four essential components of life—Earth, Air, Fire, and Water—were the focus of the year's theme, "ESSENTIA," which was introduced in 2018. Expert panel discussions, technical paper presentations, project exhibitions, and poster presentations were all part of the festival. It also featured enjoyable activities like LAN gaming, escape rooms, and laser tag. A conference on international education attracted a sizable number of students, while workshops on the IoT and ethical hacking were also held.

Overall, the TECHITHON at Atharva College of Engineering has been a platform for technical and creative expression, featuring a wide range of projects, workshops, seminars, and fun events throughout the years.

5. Evidence of Success:

The efforts put in by each council member and volunteer was noteworthy and highly appreciated by everyone who visited the festival. The presence and participation of students from various colleges itself proved that the festival was a great boon for the young engineering students, who got Involved and displayed their technical projects related to the theme. The success of the event was reported in reputable newspapers, and many celebrities praised it. They expressed their valuable Feed-back that the festival was very successful in every possible manner. The winners of Hackathon were blood donor finder led by Syed Shahad Uddin and Food VR note led by Neha Bhargava.

The winners of the event, brain squeezers were Dhruva, timeless treasures was Maity Pathak and many other events were led by ACE students.

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6. Problems Encountered and Resources Required :

1. Efficient organization and scheduling were crucial factors in successfully managing such a large-scale event.
2. Choosing an engaging and relevant theme for the festival was of utmost importance.
3. Providing effective guidance and motivation to students was essential in keeping them engaged and enthusiastic.

Best Practices-II

1. Title of the Practice : AIIR (Atharva's iLab, iMac and Robotics)

2. Objectives of the Practice

- Encourage future competent engineers to foster practical robotics and automation knowledge.
- Promote Research, Technology & Innovation endeavors.
- Confront the difficulties and take challenges in app development and the rapid growth of mobile technologies.
- Offer industry-aligned training programs and to provide training courses, hold hands-on workshops, and keep abreast of innovation and technological developments.
- Cultivate Creative Thought Leaders in engineering.

Context : Atharva College of Engineering recognizes the importance of providing cutting-edge resources and facilities to ensure a promising future to students. Atharva's iLab, iMac Lab, and Robotics-AIIR serve as vital components in this endeavor for granting access to innovative technology, inventive solutions, and expert guidance. Atharva Centre of Creativity has launched a program focused on Creative Leadership, Innovation, and Idea Generation within the iLab—an Innovation and Imagination hub. This lab offers tangible platforms and mind-mapping technologies to transform student's ideas into reality.

The iMac Lab, comprising 20 iMacs, an iPad, and an Apple TV, aims to empower graduates in domains driving the digital world, such as mobile computing, multimedia, and cloud computing. It equips students with the

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necessary skills to thrive in these areas. For the purpose of creating highly qualified specialists in industrial robotics, “Atharva Robotic Centre” offers specialized training in advanced automated manufacturing. Through the adoption of cutting-edge technologies, these skilled professionals will embrace to improve the efficiency and quality of the Indian manufacturing sector.

The Practice :

Atharva Robotics Center offers comprehensive training on KUKA KR 16-2 C4 Robots, providing students with hands-on experience in advanced factory automation technology. The center features a fully operational Kuka Robot, enabling realistic training and hand-on learning opportunities.

The iMac prepares graduates in various domains essential to the digital world, such as mobile computing, multimedia, and cloud computing. The lab encourages creativity and innovative projects by familiarizing students with versatile applications and tools.

The Innovation Lab (iLab) offers physical and technological spaces to nurture breakthrough ideas. The center delivers Management Development Programs (MDPs) and shares innovative knowledge with corporate professionals. With top-notch infrastructure, advanced software, and 3D Idea generator tools, the iLab empowers students to implement innovative projects.

Overall, Atharva Robotics Center, iMac Lab, and Innovation Lab provide specialized training, advanced technology resources, and a creative environment for students to excel in robotics, digital domains, and innovative endeavors.

4. Evidence of Success :

1. 113 students underwent training and took part in esteemed competitions such as ROBOCON-2022, the International Robotics Competition, the Flipkart Grid 3.0 & 4.0 Robotics Competition, and the Smart India Hackathon-2022. A few of them successfully transformed their ideas into startups.
2. 302 students who received training at the iMac lab witnessed enhancements in their academic performance, employability, and validation of their knowledge

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3. 252 prospective technocrats are being trained through ilab to bridge the gap between academia & industry and to become corporate professionals. These students are empowered to implement innovative projects.

5. Problems Encountered and Resources Required :

- To encourage course enrollment.
- To bring attention towards the course benefits for careers and employment opportunities.
- To regularly update the training curriculum in light of changing trends and predictions for the mobile app development industry.
- To streamline the importation process from other nations in order to guarantee effective maintenance of machine parts and reduce downtime.

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Describe two best practices successfully implemented by the Institution.

Evidence of Best Practice 1 - TECHITHON

Report link- <https://atharvacoe.ac.in/wp-content/uploads/IEEE-TECHITHON-REPORT-FINAL.pdf>

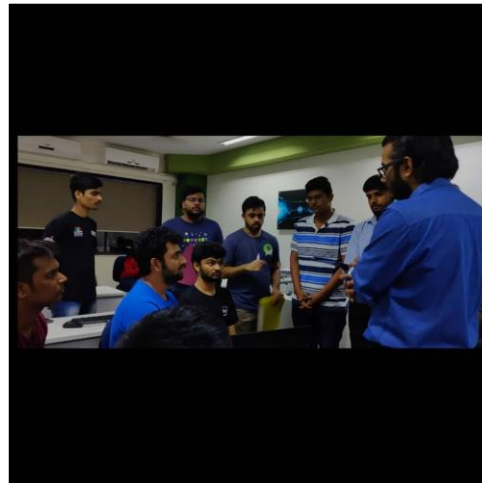
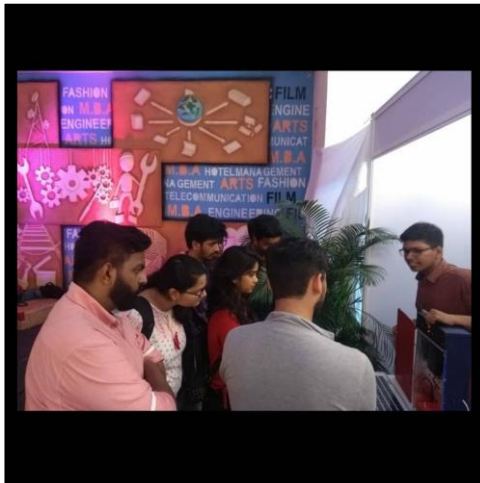
Glimpse of TECHITHON- ALCHEMIA-2022



Left to right : Saraswati Vandana , Principal Dr Shrikant Kallurkar inaugurating the Techithon 2022,

Dr Kallurkar with Students, student participating in weight lifting competition.

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- Left to Right: Newspaper writes about Techithon, Dr SP Kallurkar and student at Theme Point, Student presenting their Project and students at iMac Lab.

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Left to Right : Dr Pravin Nemade (Director AGI) interacting with student, Glimpse from Chess tournament, Guest lecture and Game Point.

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Left to right : Hon. Executive President Shri. Sunil ji interacting with students, Talk
on "Defense Technologies" by Dr. Murlidhar Patkar

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Report link- <https://atharvacoe.ac.in/wp-content/uploads/TECHITHON-REPORTFINAL.pdf>

Glimpse of TECHITHON- AUGMENTIA -2021



Left to Right : Inauguration of Augmentia By Harishchandar B and Dr Bhavin Shah, Chess and Brain Teaser Competition on Day 1.

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Report link - <https://atharvacoe.ac.in/wp-content/uploads/IEEE-TECHITHON-19-Report.pdf>

Glimpse of TECHITHON- INNOVAZIA -2019

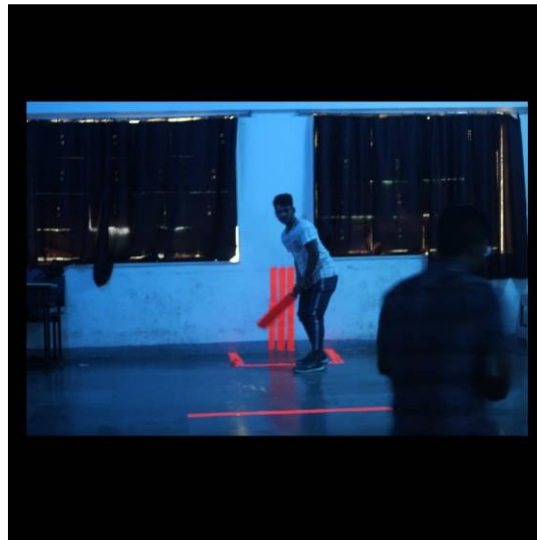
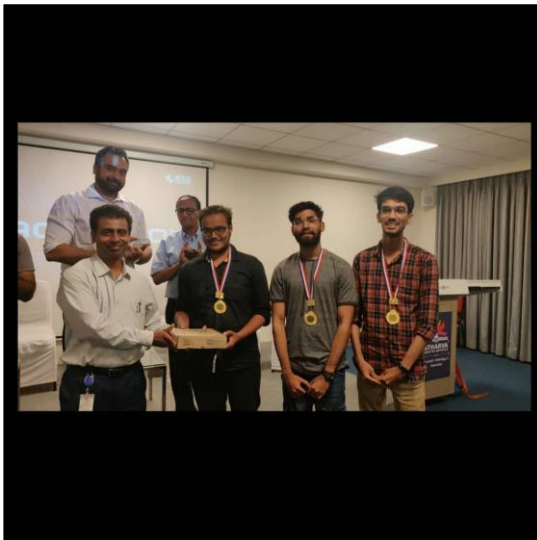
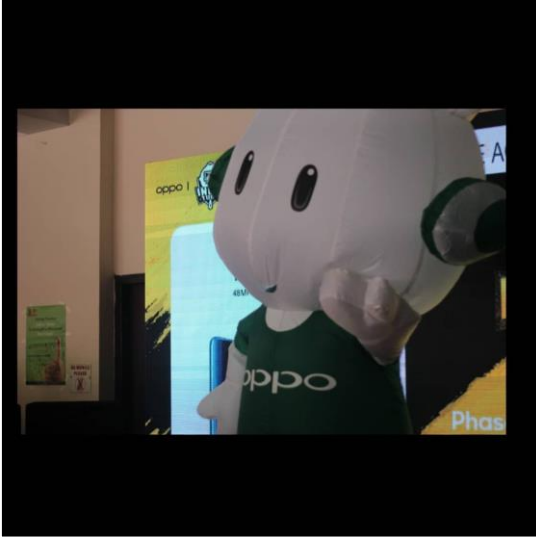


a. Glimpse of INNOVAZIA



b. Display of Robotics by Atharva Robotics Center .

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Left to Right : Display of Sponsor, Chess Game Competition, Prize distribution ceremony and Neon Cricket competition.

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Report link - <https://atharvacoe.ac.in/wp-content/uploads/IEEE-Techithon-2018-Report.pdf>

Glimpse of TECHITHON- ESSENTIA -2018



left to right : Inauguration by Chief Guest of the event Dr. Capt.C.M.Chitale ,Principal Sir Dr.S.P.Kallurkar sir
felicitating Chief guest of the event Dr. Capt.C.M.Chitale and Chief Guests visiting innovative projects developed by the
students of Atharva College of engineering.

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Evidence of Best Practices 2-

AIIR (Atharva's iMac, Ilab & Robotics Lab)

Report link - <https://atharvacoe.ac.in/wp-content/uploads/iMAC-Report-2021-22.pdf>

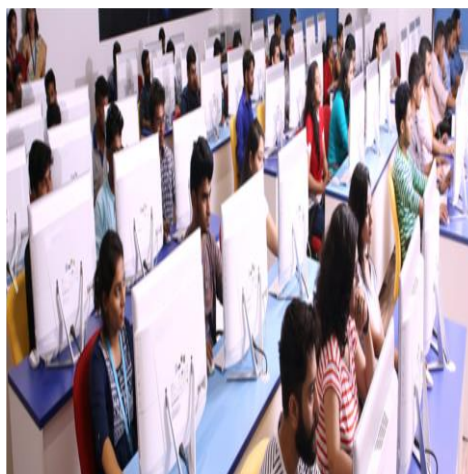
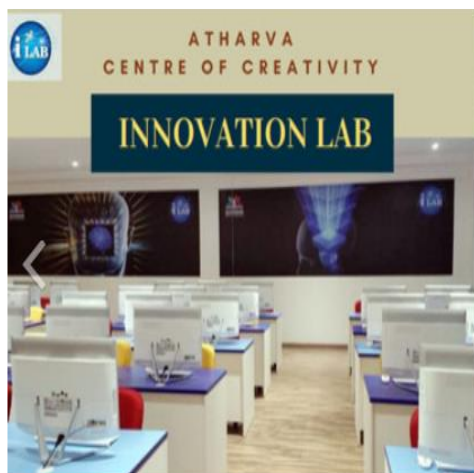


Glimpse of iMac Lab

https://drive.google.com/drive/folders/1HauSvVqGKF5a8_S1a6qTH7IMD55htWeO

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Report link - <https://atharvacoe.ac.in/innovation-lab/>



Glimpse of iLab

Link for trained student's certificate

https://drive.google.com/drive/u/1/folders/140d2F2w67d_dUv9zMADPONsbUI191Jak

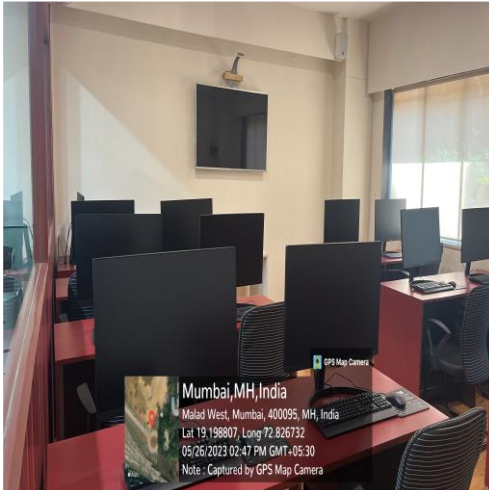
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Report link - <https://atharvacoe.ac.in/wp-content/uploads/Brief-Report-of-Atharva-Robotics-Center-for-College-Website.pdf>



Glimpse of Robotics Lab

Link for trained student's certificate

https://drive.google.com/drive/folders/14ZfjOE_H1hWB6quVyDCBV1mGznNlmxhk

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IEEE TECHITHON '22

Atharva College of Engineering hosted its annual technical fest **IEEE TECHITHON 2022** successfully during 6th to 9th of October. This technical fest was a grand success. We the IEEE TECHITHON COMMITTEE'22 were greeted with a thumping number of visitors throughout the fest. The theme for this year's annual technical fest was "ALCHEMIA – A DECADE OF UPGRADE."

Our Annual technical fest was special in many aspects; it was a blend of technical as well as cultural, sports events. The main attraction of the fest was the technical project exhibition, for which our technical team worked really hard day in and day out. We received an overwhelming response from all the students, faculties and dignitaries throughout the course of our technical fest.

Some of the prominent events of our fest were Hogathon, treasure hunt, bug bounty, Webster, chess and many more. We also had various pre events for the sports enthusiasts like Rink Football, Volleyball, and Box Cricket.

We also had conducted insightful sessions on key topics for the budding engineers of our college. This Guest Lecture Series is prominently known as **Atharva Guest Lecture Series (AGLS)**. The first session was conducted on the topic '*Defense Technologies*' by **Dr. Murlidhar Patkar**. Whereas, the second session was conducted by **Mr. Chaitanya Kotadia** on the topic "*ArthaKranti- Economic Revolution.*"

The year, the committee had organized a 24hr Hackathon named as **Alchemia-Hacks 2022**. This event received an overwhelming response from the coding community. In addition to this, the Alchemia hacks provided a platform for the budding coders of our college to present their coding skills.

The fest was embraced by the dignitaries including our Hon. Executive President **Shri. Sunil ji Rane Sir** - MLA of Borivali, our Trustee **Ms. Pallavi Rane Ma'am**, director of Atharva college of Engineering – **Dr. Pravin Nemade Sir** and our Principal – **Dr. Shrikant Kululkar Sir**.

Mr. Virag Ghelani and Ms. Sejal Kumar were our Guest of Honors for the inauguration ceremony of IEEE Techithon 2022. Mr. Nimit Kotian and Mrs. Alisha Vinerkar also showed their valuable presence and graced our technical fest with their warm presence.

Below is the list of our technical projects exhibited in the IEEE TECHITHON 2022:-

1. River Cleaning Boat
2. Atharva Augmented Reality Kit
3. Atharva Flight Tracker
4. Atharva Arcade
5. Object Detection Application
6. Malicious Website Detection Tool
7. Atharva Smart Home
8. Fire Fighting Robot
9. Gans Text Recognition Software

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Memorable moments of the annual technical fest:-



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Glimpse of Day 1:



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Glimpse of Day 2:-



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Glimpse of Day 3:



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Glimpse of Hackathon:



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On behalf of the IEEE TECHITHON COMMITTEE 2022, we would like to thank **Hon. Shri Sunil ji Rane Sir**, Executive President of Atharva Group Of Institutes and MLA Borivali for supporting us for all the extracurricular activities and events and granting all the permissions required throughout the fest. We would further like to thank all the dignitaries, Head of Departments (HODs), teaching and non-teaching staffs of Atharva Group of Institutes for their guidance and support and the students of Atharva Group Of Institute for their proactive participation. We the IEEE TECHITHON COMMITTEE 2022 would like to express our gratitude to our Faculty Coordinator - Dr. Bhavin Shah Sir for his valuable time, insight and support throughout the fest.

Best Regards,
Organizing Committee,
IEEE TECHITHON COMMITTEE
2022.

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Date – 17/01/21

IEEE TECHITHON'21

IEEE TECHITHON'21 is an online technical fest which was initiated by Atharva College of Engineering for all students from 1st to 3rd October. The theme for this year was “AUGMENTIA – The Future Is Virtual!”. The major goal of this technical fest is to make people aware about the current COVID'19 pandemic situation and provide students with an opportunity to display their abilities on an online platform. The main aim behind choosing this theme is that it teaches all of us something new and fascinating. By learning about the future technology, we at ACE want to inspire & motivate students to do something unexpected and adventurous during this time of lockdown and prepare them for what lies ahead. The online fun fest consisted of various amusing and technical events like paper presentation, brain squeezers, brainiac, chess, animei, treasure hunt, gaming and fitness events. While we all were sick and tired during this lockdown period, the aim of Atharva College of Engineering was to motivate students to do something different and exciting.

Total number of Registration: - 382

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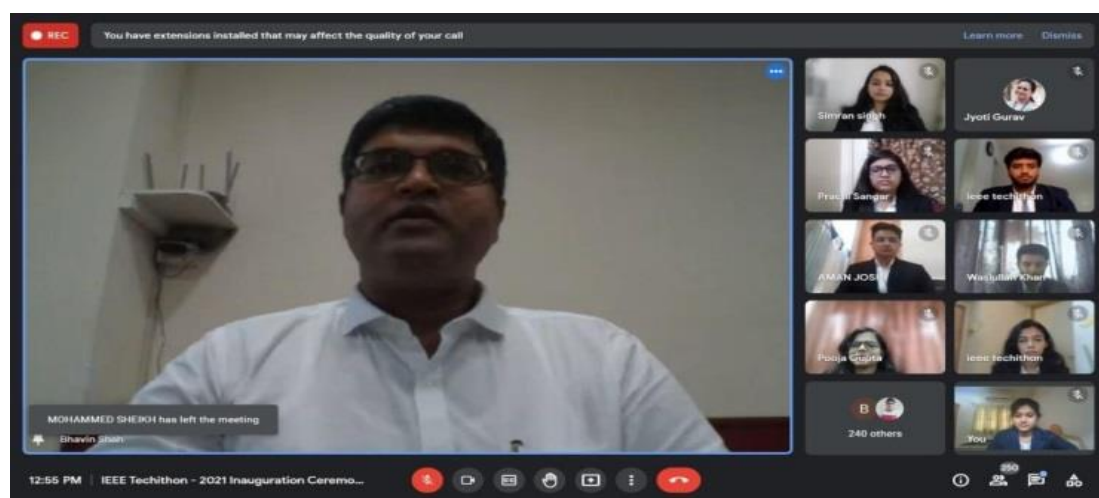


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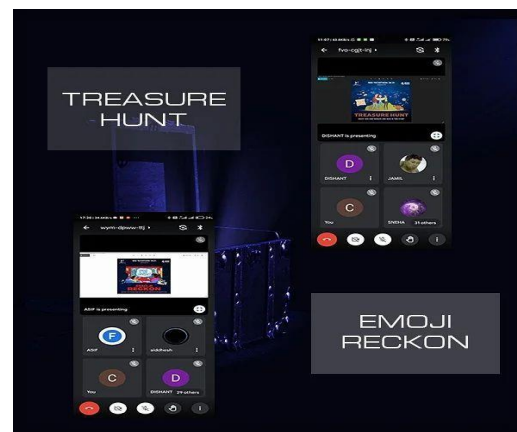
Sr. No.	Event Name	Winner	Runner up
1	PAPYRUS	PRANIT RAUT/ VEDANT PAWAR	
2	AET ENGINIUS	NAKSHATRA NAIK, OMKAR GOIKAR, SAMARTH KORGAONKAR & ANJAN NAIR	SNEHA DHUMAL
3	BRAIN SQUEZZERS	DHRUVA	
4	BRANIAC	NEHA CHOUDARY	
5	WEB-STERS	RAIYAN KHAN	
6	TREASURE HUNT	RAIYAN KHAN	
7	BGMI	TRUPANUK GAUTAM, DEVESH DHAWAN, OM PATIL & SOHAM KASAR	AYUSH PATEL, SURYANSH MEENA, RUMIT GURBANI, KARTHIK SINGHANI
8	BGMI TDM(1V1)	ARMAN	
9	BGMI TDM(4V4)	VARUN SINGH, MAAHEER SINGH. ADITYA RAY & YGESH SINGH	
10	VALORNT	SHUBH PATEL, HARSH VARDHAN, YASH VASUDEV & KRUSHANG SHAH	ROHIT PHATARPEKAR, GULZAR AHMED, MALHAR DIXIT, HIMANSHU NIMBAIKAR, & SATVIK BHUJLE
11	CHESS	OM PAWAR	SHIV MALHARI
12	CALL OF DUTY	MIHIR RATHOD	CHINMAY OM NILESH CHIRAG ABHISHEK MANTHAN
13	ANIMEI	HANNAN KHAN	

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14	FOOD BLOGGING	KIRTI MEHTA	
15	EMOJI RECKON	VRUNDA PANSURIYA DISHA PANSURIYA ESHA SETH	SMRITI KAMBLE
16	RUBIKA	DHRUVA	
17	TIMELESS TREASURES	MAITY PATHAK	
18	FITNESS COMBO	NEEL KOTNIS	
19	SUPEMAN STRENGTH	VEDANT PAWAR	



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Place: Mumbai
09/10/2019

Atharva College of Engineering hosted one of the most jubilant and elaborate annual technical fest from 9th October to 11th October 2019. IEEE TECHITHON is the annual inter-collegiate Technical Festival that began by Shri. Sunil Rane, Executive President, Atharva Group of Institutes which encourages engineering undergraduates to showcase their technical skills and compete with others to find the best. IEEE TECHITHON 2019, this time focuses on filling in the gap that separates existing technology with new, modern users with their theme INNOVAZIA, Revamping tech. Innovazia is the environment where the existing technology is re-accelerated to fit the needs of the new generation. The fest is more promising than ever assuring a radiant blend of technology, Creativity, Beauty and fun with technical events like Robo wars, Robo Soccer, Technical paper presentation, Blind coding favoured with various genre's events like Fifa, Treasurehunt, Hogathon, Neon football, escape the room, PUBG, Laser tag and many more, IEEE TECHITHON is anticipated to set a new high for all the technical fests in the city.

Through this festival, IEEE TECHITHON desires to promote innovations in technologies for the betterment of our country as well as to the whole world, which is also the mission and vision of IEEE (Institute of Electrical and Electronics Engineers) worldwide. The projects are Mini Kuka- 6 axis Robot, Military Robot-Stealth Robot, Power mate, Humidity to water Converter, Colour Segregation for industrial logistics, Omni Surface Rover, NAS (storage server), Electronics Notepad, Door Unlocking (face recognition), Hydroponics, Solar curtain and many more. There were various seminars and workshops conducted on different topics like Abroad studies, ethical hacking and web development. The Chief Guest of the Inaugural Ceremony which took place on 9th October was Mr. Dattatrayji Rane Ex Educational minister, Smt. Kalpana Rane, and Mr. Sunil Khanna, from CII and MD of Vertiv Pvt Ltd and Mr. Arun Srivastava. Their presence in the festival was a great boon for the young engineering students who will be participating and displaying their technical projects relating to the theme. Festival has participants from different technical colleges across Mumbai to showcase their technical projects along with Atharva college students in the event.

This year IEEE TECHITHON 2019 conducted a Guest Lecture Series on 10th October wherein four prominent speakers from different fields shared their experience and knowledge with us. The speakers were Captain. Dharmveer, Mr. Ali Mustufa, Prof. Nirmal Thakur and Mr. Kuntal Joisher. Also, ACE HACKATHON'19 was conducted on 10th - 11th October. Overall 98 Participants and a Total of 22 teams worked on different projects over the domains such as Machine Learning, Healthtech, Fintech, Future of Mobility, Internet of Things for 24 hours. The judges were Mr. Aniket Kadam, Mr. Nilesh Shinde, Miss. Deesha Vora, Mr. Vivek Yadav, Dr. Jonathan Joshi, Mr. Raj Dedania and Mr. Mrityunjai Mishra. The winners of the hackathon were Blood Donor Finder which was lead by Syed Shahad Uddin and Food VR note which was lead by Neha Bhargava.

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