Rocket Launch Basics & Chandrayaan 3 Mission Goals

Title: Rocket Launch Basics & Chandrayaan 3 Mission Goals

Conducted by: EESA

Activity: Offline Seminar

Venue: Auditorium, Main Building, GCOEN

Date: September 2, 2023

Time: 11:00 AM - 12:00 PM

Participants: 108

Introduction:

On September 2, 2023, the Electrical Engineering Students Association (EESA) orchestrated a captivating seminar that delved into the realm of space exploration and innovation. Led by esteemed speakers Dr. Satish Chandekar, former Principal of SVCET, and Dr. N.D. Ghawghawe, Head of the Department, the event provided invaluable insights into Rocket Launching and the ambitious objectives of the Chandrayaan 3 mission. With a live demonstration of the Aditya L1 satellite launch and an engaging Q&A session, attendees were afforded a firsthand glimpse into the intricacies of space technology.

Event Overview:

- ➢ The seminar, organized by the Electrical Engineering Students Association (EESA) on September 2, 2023, featured Dr. Satish Chandekar, Ex-Principal of SVCET, who delivered insights on Rocket Launching and the goals of the Chandrayaan 3 mission.
- ➢ Dr. N.D. Ghawghawe, Head of the Department, also present, shared his wisdom with the audience. The event included a live display of the Aditya L1 satellite launch and an interactive Q&A session, fostering a deeper understanding of the subject matter.
- ➢ Vice President Bharat Pande concluded the seminar with gratitude to the speakers and attendees.


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Teachers' Day Celebration

Conducted by: EESA

Mode of Activity: Offline

Venue: Room no. 118 Annex Building, GCOEN

Date: September 5, 2023

Time: 3:00 pm onwards

Introduction:

Teachers' Day, commemorating Dr. Sarvapalli Radhakrishnan, was celebrated on September 5th by the EESA committee to honor the esteemed faculty members of the Electrical department. This report highlights the activities conducted by the students on this memorable day.

Event Highlights:

- The event began with a warm welcome by Prathamesh Nakade, followed by a gracious floral welcome extended to the faculty members.
- Vidhan Rajput delivered a heartfelt speech, expressing gratitude and admiration for the faculty members' dedication.
- Laksh Bahl conveyed appreciation on behalf of the student body.
- Dr. N.D. Ghawghawe delivered an inspiring speech, acknowledging the valuable contributions of the faculty members.
- Entertaining activities included "Never Have I Ever" and "Takiyakalam," followed by games like "Housie" and a tongue twister challenge.
- The event concluded with a celebratory cake cutting by Dr. Ghawghawe and a formal vote of thanks by President Rohit Bhoge.
- The event united students and teachers, strengthening the student-teacher relationship.


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Happy Teacher's Day
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Essay and Poster Competition

Date: September 5, 2023 (Tuesday)

Mode of Conduction: Online

Organizers: EESA Committee

No. of Registrations:

Essay competition: 33

Poster competition: 30

Introduction:

On Teachers' Day, the EESA Committee of GCOEN organized an online Essay and Poster-making competition. This report provides an overview of the competition, covering preparation, participation, topics, submission and evaluation, winners, and its impact on the participants.

Event Highlights:

- *Preparation*:
  Participants received the competition's rulebook via WhatsApp on September 3.

- *Topic Selection:*
  On September 4, participants were provided with three topics for each competition:

- *Essay Writing Topics:*

1. The role of college professors in fostering research skills and curiosity.
2. Assessment beyond exams: innovative methods for evaluating student learning.
3. Breaking educational barriers.

- *Poster-making Topics:*

1. Teachers: shaping the future.
2. The art of teaching.
3. The mind's canvas: artistry in education.

- *Submission and Evaluation:*

Participants had until September 5, 9:00 pm, to submit their essays or posters through a Google Form shared on September 5, 7:00 pm.

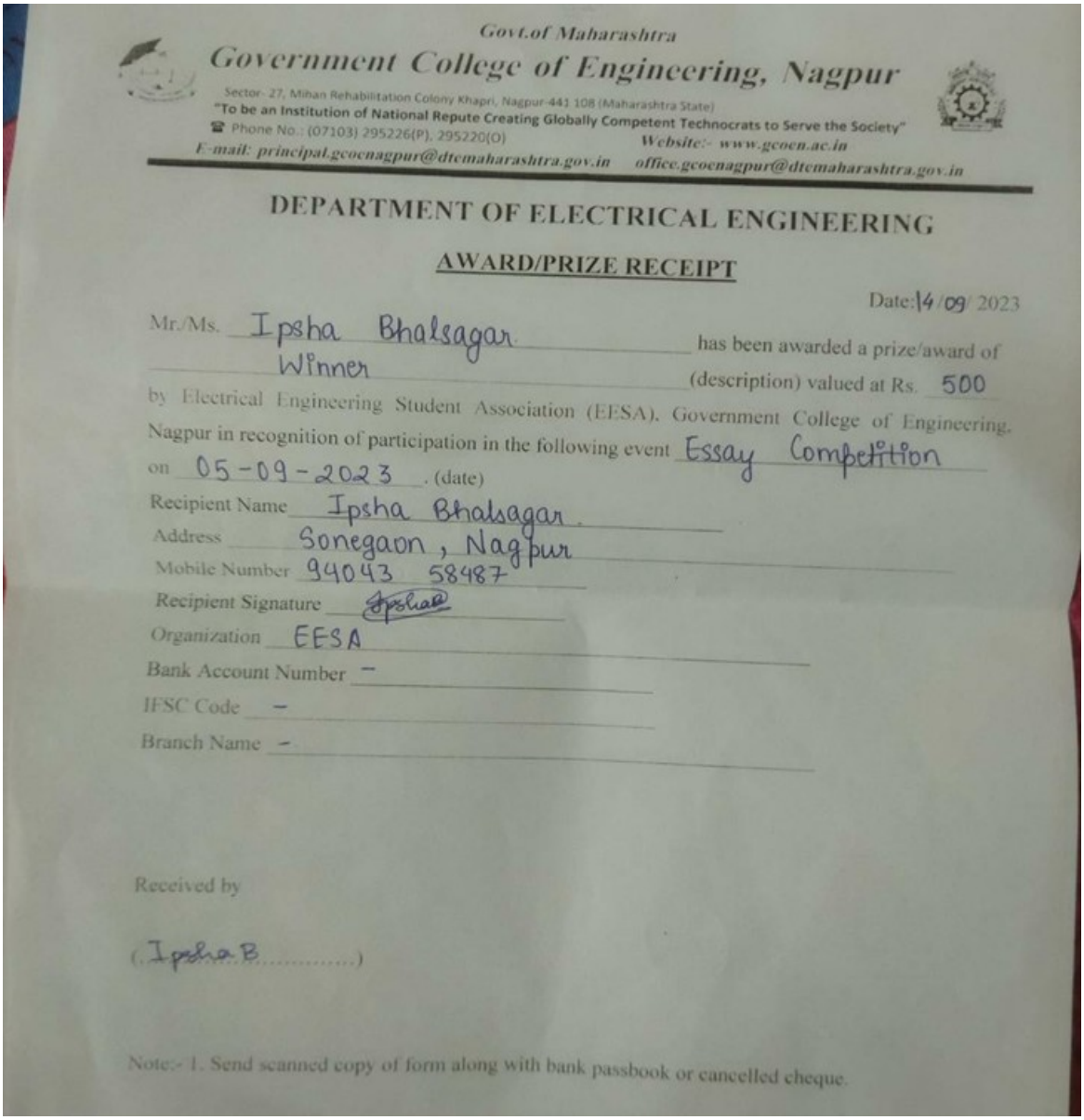
Entries were judged based on relevance, message conveyance, readability, and overall consistency by an impartial evaluation panel.

- ***Winners***:

Results announced on September 11:

Essay Competition: Ipsha Bhalsagar

Poster-Making Competition: Aditya Thombre



Govt.of Maharashtra

Government College of Engineering, Nagpur

Sector- 27, Mihan Rehabilitation Colony Khapri, Nagpur-441 108 (Maharashtra State)

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Phone No.: (07103) 295226(P), 295220(O) Website:- www.gcoen.ac.in

E-mail: principal.gcoenagpur@dtemaharashtra.gov.in office.gcoenagpur@dtemaharashtra.gov.in

DEPARTMENT OF ELECTRICAL ENGINEERING

AWARD/PRIZE RECEIPT

Date: 14/09/2023

Mr./Ms. Ipsha Bhalsagar has been awarded a prize/award of Winner (description) valued at Rs. 500 by Electrical Engineering Student Association (EESA), Government College of Engineering, Nagpur in recognition of participation in the following event Essay Competition on 05-09-2023 (date)

Recipient Name Ipsha Bhalsagar

Address Sonegaon, Nagpur

Mobile Number 94043 58487

Recipient Signature Ipsha

Organization EESA

Bank Account Number -

IFSC Code -

Branch Name -

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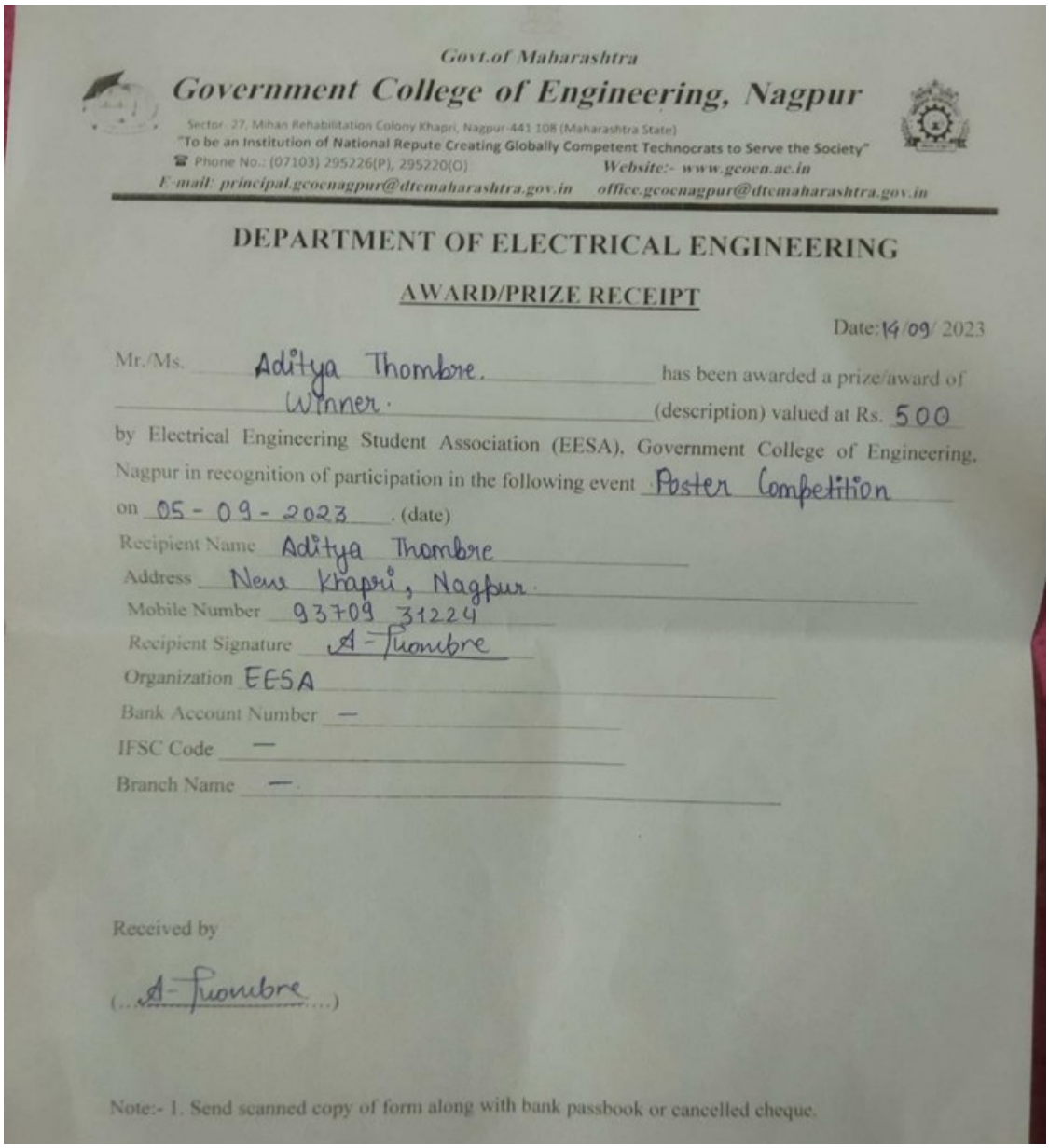

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E-mail: principal.gcoenagpur@dtemaharashtra.gov.in office.gcoenagpur@dtemaharashtra.gov.in

DEPARTMENT OF ELECTRICAL ENGINEERING

AWARD/PRIZE RECEIPT

Date: 14/09/2023

Mr./Ms. Aditya Thombre. has been awarded a prize/award of Winner. (description) valued at Rs. 500 by Electrical Engineering Student Association (EESA), Government College of Engineering, Nagpur in recognition of participation in the following event Poster Competition on 05-09-2023 . (date)

Recipient Name Aditya Thombre

Address New Khapri, Nagpur.

Mobile Number 93709 31224

Recipient Signature A-Thombre

Organization EESA

Bank Account Number —

IFSC Code —

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Engineer's Day

Date: September 20
Venue: Room no. 2, Auditorium, Main Building
Time: 3:00 p.m. to 5:00 p.m.
Mode of Conduction: Offline
Number of Participating Teams: 13

Introduction:

The Electrical Engineering Students Association (EESA) celebrated Engineer's Day with fervor on September 20. The event aimed to honor engineers' contributions while nurturing creativity and innovation. This report details the three main rounds: the MCQ Quiz, Word Search, and Car Modelling.

Event Highlights:

- The MCQ Quiz kicked off the event with 13 teams vying for victory. Questions spanned various engineering disciplines, testing participants' knowledge in a 15-minute sprint. The rigorous round led to the elimination of 5 teams.
- The Word Search round added a twist, requiring participants to find engineering-related answers in a puzzle. This collaborative effort narrowed down the top 5 teams for the final round.
- The Car Modelling and Racing competition stole the show. Teams crafted cars from cardboard and raced them, showcasing a blend of creativity and engineering prowess. Vedant Pandit and Raghav Joshi emerged as winners.
- The event celebrated engineers' societal impact and provided a platform for aspiring engineers to shine. The diverse activities captured different facets of engineering, fostering innovation and practical skills.


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Donation Drive "BEACON OF HOPE"

Date: November 6, 2023

Venue: Matru Seva Sangh, Sitabuldi

Organized by: EESA

Mode of Conduction: Offline

Introduction:

The Electrical Engineering Student Association (EESA) organized a heartwarming donation drive in collaboration with Matru Seva Sangh, aiming to bring joy to specially-abled children during Diwali. This event not only spread the Diwali spirit but also contributed to the well-being of these children, fostering community and compassion.

Event Highlights:

- One week prior to the drive, the EESA committee collected funds through donation forms and personal outreach to college faculty. With contributions from students and faculty, a total of Rs. 13,566 was collected. The event unfolded with enthusiasm, marked by the presence of esteemed faculty members, including Dr. R.S. Surjuse, who offered words of encouragement to the children.
- The festivities began with a floral welcome for faculty members and teachers of Matru Seva Sangh. Exciting games like Simon Says and The Clap game were organized, creating an atmosphere of joy and camaraderie among the children.
- A heartfelt Diwali story was shared with the children, imparting valuable lessons and spreading festive cheer.
- Traditional Diwali snacks were presented to the children, along with a contribution of 50 kg of rice from the EESA committee, emphasizing nourishment and sustenance.
- The event concluded with a generous donation of Rs. 6101, aimed at furthering the well-being of the specially-abled children.


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Industrial Robotics, Automation, and Future Applications

Date: October 5

Venue: Room no. 2, Auditorium, Main Building

Time: 3:00 p.m. to 4:15 p.m.

Conducted by: EESA

No. of Participants: 65

Event Coordinator: Nisha Khatri

Seminar Link: Watch Here

Introduction:

EESA organized an expert lecture on Industrial Robotics, Automation, and Future Applications, featuring Mr. Anil Tatode from RTMNU Nagpur. This report encapsulates the highlights of the lecture.

Event Highlights:

- The event commenced with a warm welcome from Vedant Pandit, setting a positive tone. Esteemed guests, including Mr. Tatode, Dr. Ghawghawe, and Dr. Surjuse, were honored with rose flowers.
- Dr. Ghawghawe's insightful thoughts paved the way for Mr. Tatode's comprehensive presentation on industrial robotics, covering trends, types, and applications.
- In summary, the event was enlightening, broadening the audience's understanding of industrial robotics and inspiring them with the vast potential this field offers.
- Mr. Tatode's presentation illuminated attendees, inspiring them with career prospects and technical insights.


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Expert Lecture on Optimization Techniques

Date: 1st December 2023

Platform: Google Meet

Organized by: Electrical Engineering Student's Association, Government College of Engineering Nagpur

Speaker: Dr. N.D. Ghawghawe

Designation: Head of the Department, Electrical Engineering Dept., Government College of Engineering Nagpur

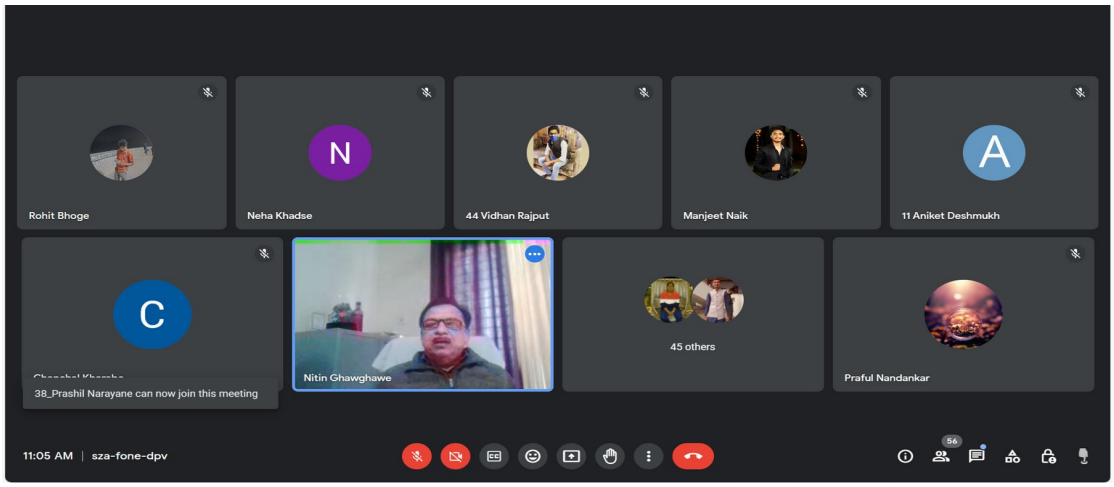
Introduction:

The webinar aimed to delve into Optimization Techniques, offering valuable insights to students and professionals interested in the field of Electrical Engineering.

Event Highlights:

- Dr. N.D. Ghawghawe, Head of the Department, commenced the webinar with a comprehensive overview of Optimization Techniques, emphasizing their significance in various engineering applications.
- The presentation blended theoretical discussions with real-world examples, fostering interactive learning among participants.
- Participants engaged actively, posing questions and participating in discussions to deepen their understanding of the topic.
- The session concluded with gratitude extended to Dr. Ghawghawe for his insightful presentation and dedication to academic excellence.

EESA 2023-24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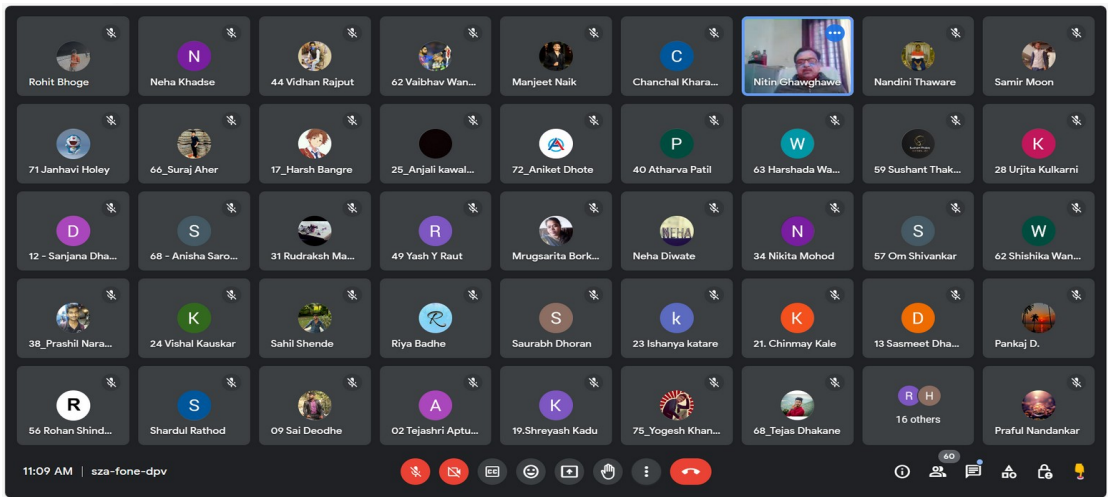
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Expert Lecture on Advanced Control Systems

Date: 2nd December 2023

Platform: Google Meet

Organized by: EESA Committee, Government College of Engineering Nagpur

Speaker: Prof. Mrugsarita Borkar

Designation: Assistant Professor, Electrical Engineering Dept., Government College of Engineering Nagpur

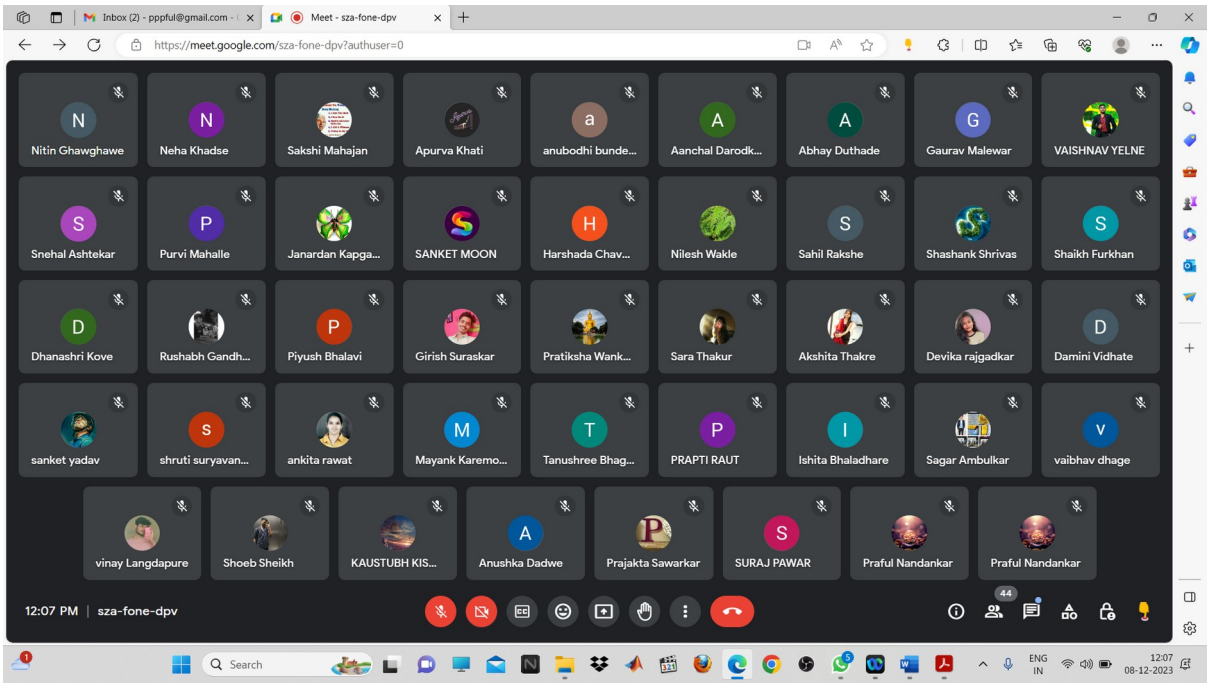
Introduction:

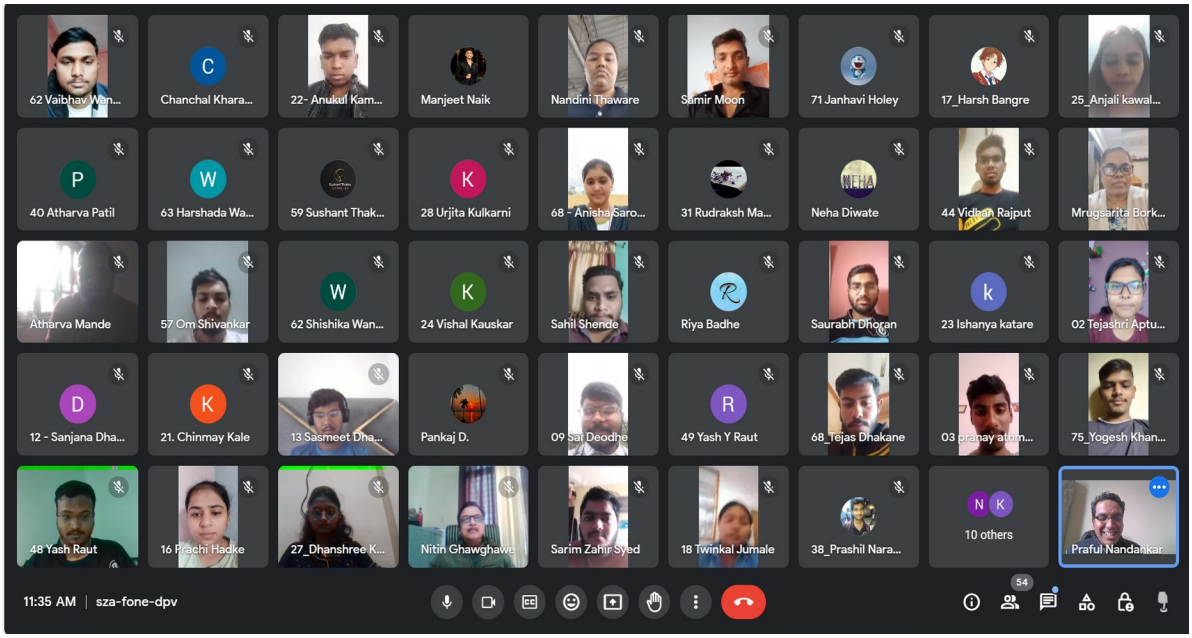
On December 2nd, 2023, the EESA Committee at Government College of Engineering Nagpur organized an expert lecture focused on Advanced Control Systems. The session aimed to provide insights into this advanced topic, catering to the academic interests and career prospects of students pursuing Electrical Engineering.

Event Highlights:

- ➢ Prof. Mrugsarita Borkar, an esteemed faculty member of the Electrical Engineering Department, took the virtual podium to deliver her enlightening discourse on Advanced Control Systems.
- ➢ Prof. Borkar commenced her presentation by elucidating the fundamental principles underlying advanced control systems, providing a comprehensive overview of their significance in various engineering domains. She adeptly navigated through complex concepts, ensuring clarity and engagement among the audience.
- ➢ Throughout the session, Prof. Borkar employed a blend of theoretical insights and practical applications, enriching the learning experience for the attendees. She shared real-world examples and case studies, elucidating the relevance of advanced control systems in modern technological advancements.
- ➢ Furthermore, Prof. Borkar encouraged interactive participation, inviting queries and fostering an environment conducive to collaborative learning. Attendees

actively engaged in discussions, seeking clarifications and sharing their perspectives on the subject matter.





Expert Lecture on Advanced Electrical Drives

Date:- 3rd Dec 2023
Mode:- Online at Google Meet platform
Time:- 12.00 p.m. to 1.00 p.m.
Conducted by:- EESA
No. of Participants:- 65
Event Coordinator: - Sayali Ther

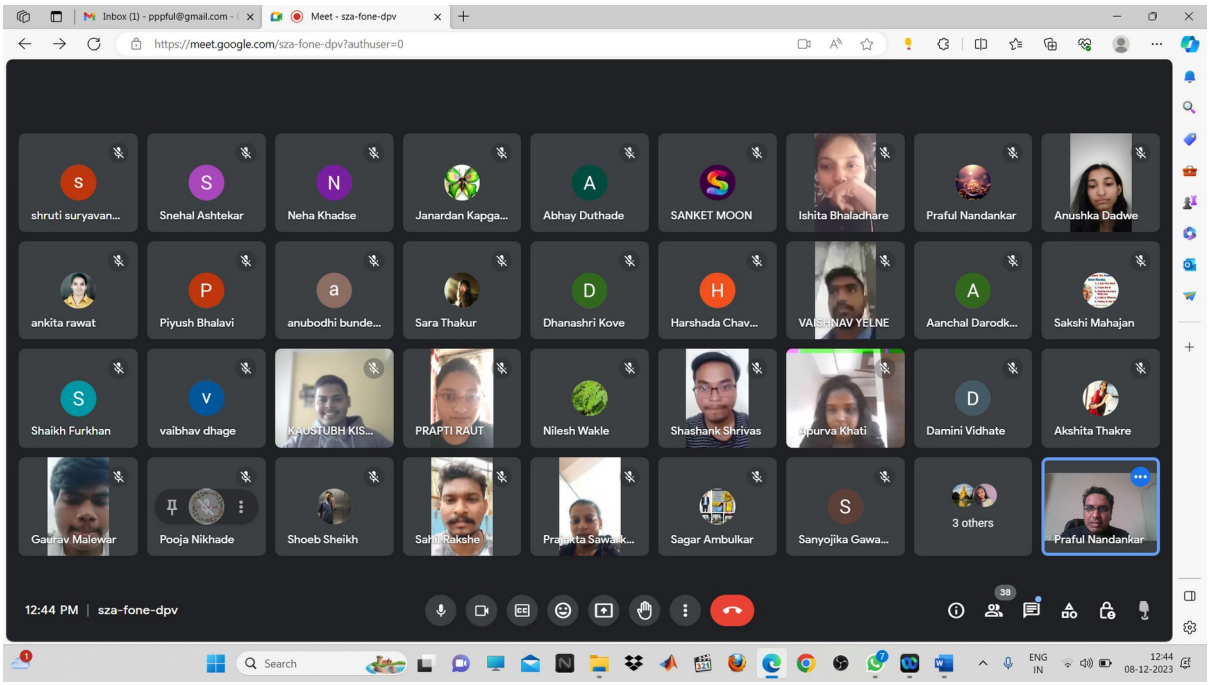
Introduction:

On December 3rd, 2023, an expert lecture was organized by the EESA Committee on the topic of Advanced Electrical Drives. The session aimed to provide students and professionals with profound knowledge about the latest ongoing trends in the field.

Event Highlights:

- Prof. Praful Nandankar, Innovation Coordinator at Government College of Engineering, Nagpur. Mr. Nandankar shared his profound knowledge about the latest ongoing trends in the field of Electrical Drives.
- He elaborated on a vivid range of applications and their utilization among industries, emphasizing enhancements to electric motors, opportunities available in that field, payable salaries, and more. Prof. Praful Nandankar gave an overview of the importance of advanced electrical drives in modern industrial and commercial applications.
- Topics covered during the lecture included Control Strategies, Power Electronics, Sensors and Feedback Systems, Communication Interfaces, Regenerative Braking, Integration with Automation Systems, Customization, and Flexibility. Mr. Nandankar then delved into the world of power electronics, explaining the role of insulated gate bipolar transistors (IGBTs) and silicon carbide (SiC) devices in advanced drive systems.
- He emphasized the seamless integration of drives with automation systems, PLCs, and SCADA systems for enhanced control and monitoring. The lecture concluded with an interactive Q&A session, where attendees had the opportunity to ask questions and engage with the presenter.

EESA 2023-24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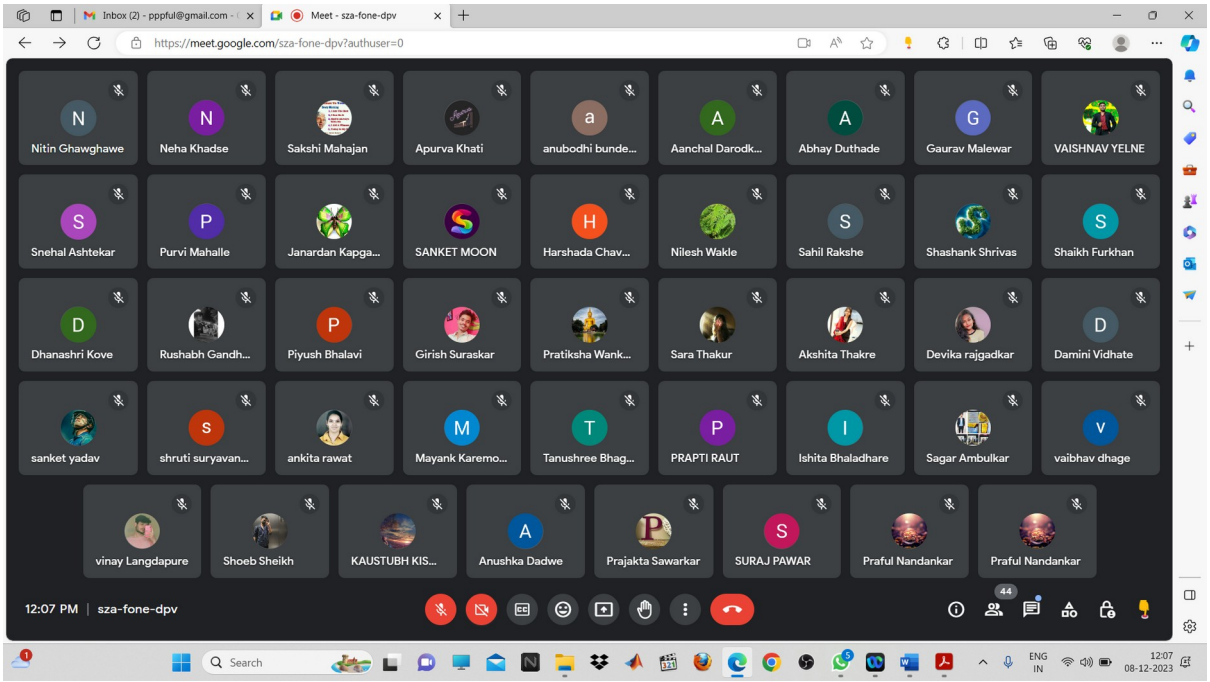
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Expert Lecture on HVDC Transmissions

Date: 8th December 2023

Platform: google meet

Speaker: Prof. Yogita Ashtekar

Designation: Assistant Professor, Electrical Engineering Dept., Government College of Engineering Nagpur

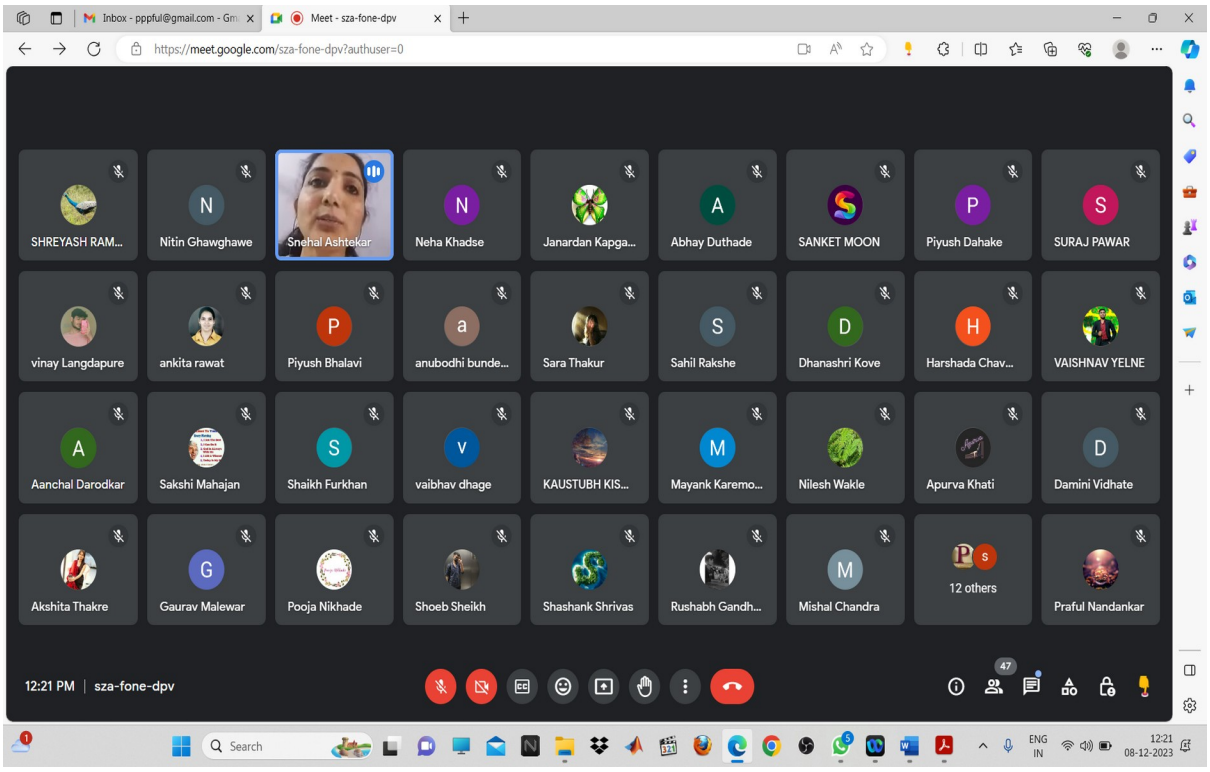
Introduction:

On December 8th, 2023, the EESA Committee at Government College of Engineering Nagpur organized an expert lecture focusing on HVDC (High Voltage Direct Current) Transmissions. The seminar aimed to provide insights into the significance, principles, applications, and future prospects of HVDC Transmissions in the field of electrical engineering.

Event Highlights:

- The seminar commenced with a warm welcome extended to all attendees, followed by an introduction of the speaker, Prof. Yogita Ashtekar, Assistant Professor in the Electrical Engineering Department at Government College of Engineering Nagpur.
- Prof. Ashtekar initiated her presentation by elucidating the fundamental principles underlying HVDC transmissions, emphasizing their importance in modern power systems and their advantages over traditional AC (Alternating Current) systems.
- Throughout the session, Prof. Ashtekar provided a comprehensive overview of HVDC transmission technology, covering topics such as operating principles, key components, converter technologies, and control strategies. Prof. Ashtekar encouraged interactive participation, inviting questions and discussions from the attendees. Queries were addressed with clarity, further enriching the learning experience for the audience.
- Attendees expressed their appreciation for the opportunity to learn about HVDC transmissions and their potential impact on the future of power systems.

EESA 2023-24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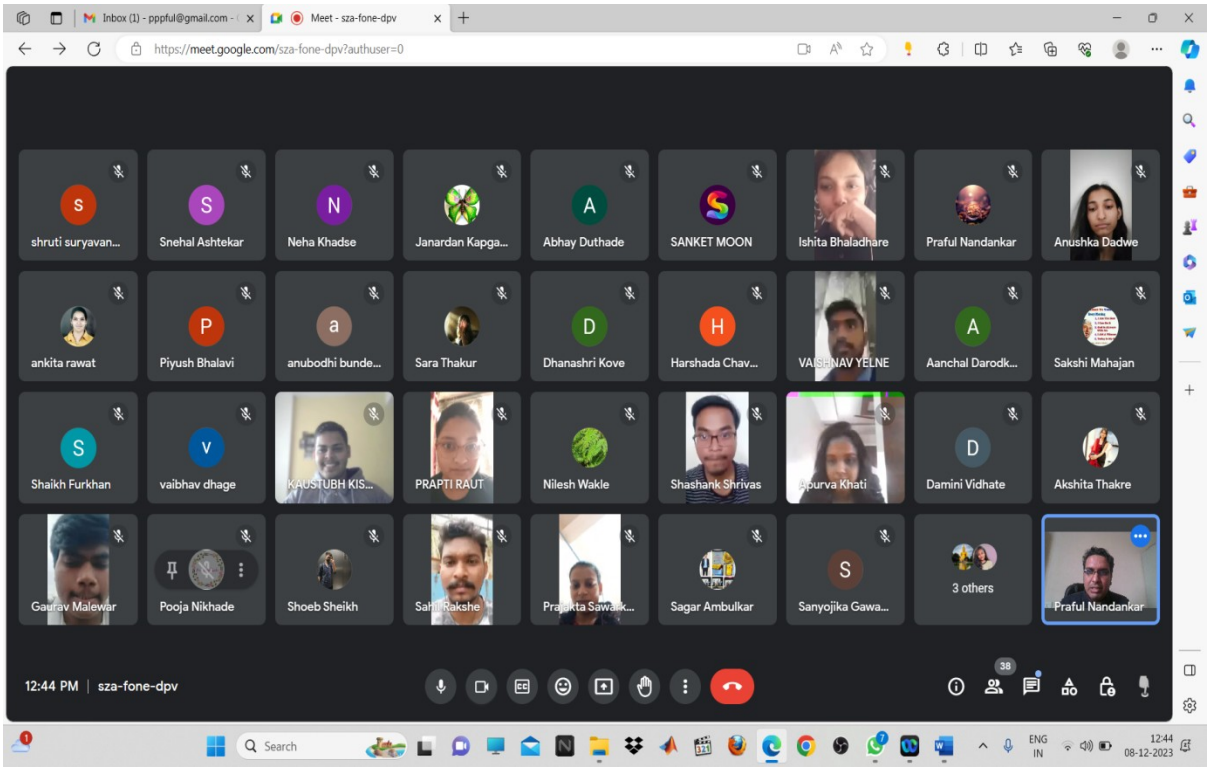
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BORN PSYCHOS | ADHYAAYA 2024

Born Psychos | Adhyaaya 2024

Date: 21st February 2024

Venue: Government College of Engineering, Nagpur

Time: 10:00 am onwards

Link to Clips: Campus Code Hunt BIS Quiz

Introduction

Born Psychos, a highly anticipated event of Adhyaaya 2024, organized by the EESA committee, attracted 37 entries this year. The event allowed both duos and quadruples to participate, generating a revenue of 5,330/-.

Event Highlights:

The event commenced with an opening by EESA committee executive members, Shivani Gurnule and Arsh Sheikh, providing an overview of rules and guidelines.

Round 1: Treasure Trackers (Treasure Hunt with BIS codes), challenged teams to solve clues within 45 minutes, decoding Morse codes representing IS codes, and solving riddles.

The wildcard round, BIS Quiz, featured 15 questions based on Bureau of Indian Standards, with nine teams advancing to the next round.

Round 2: Joyful Jamboree, tested teams' wit and agility through mind-bending riddles and a competitive smiley ball fight, leading to the top 10 teams.

Round 3: Culmination Chronicle, required teams to solve a murder mystery within 45 minutes. The quadruple team Neha Malode emerged as winners, followed by the duo Vivek Rathod and Arnav as runners-up.


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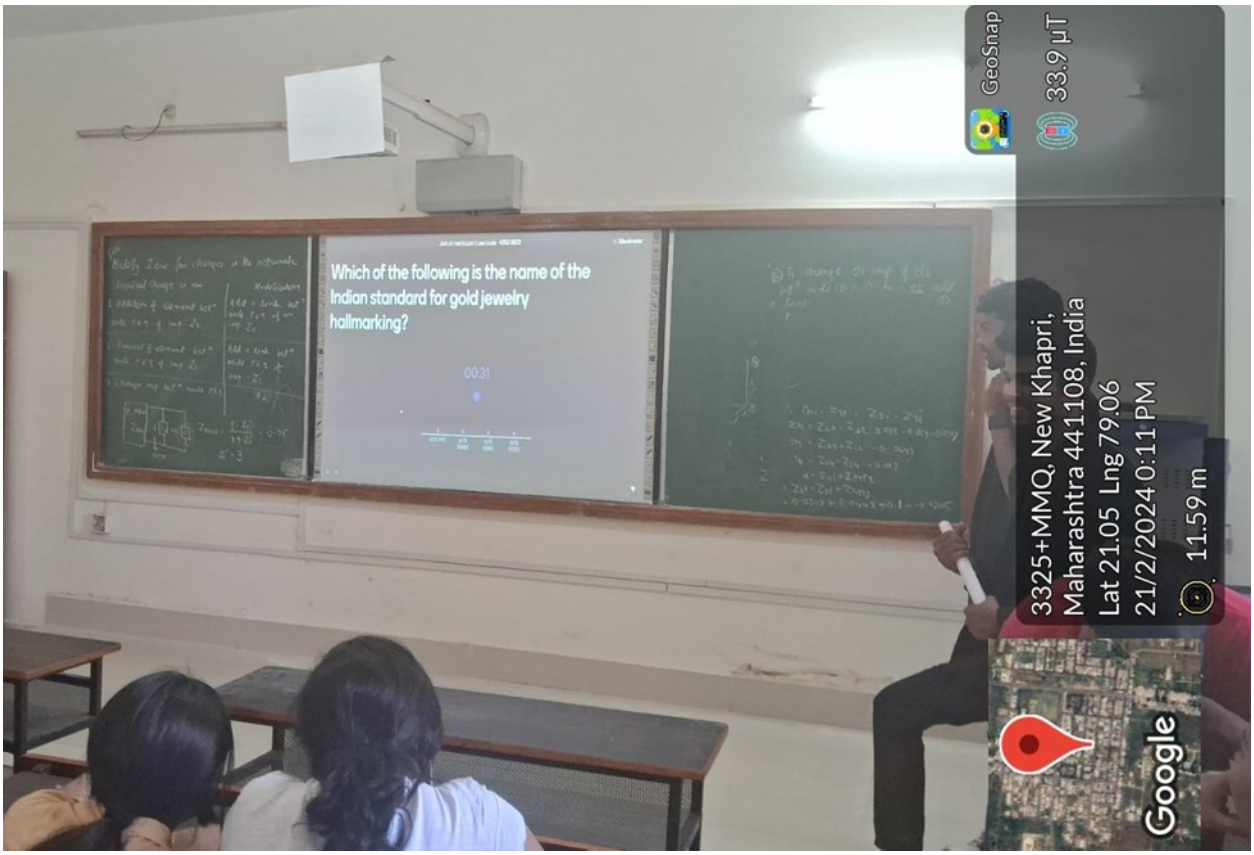
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Inventrix Round 2 2023-24

Title: Inventrix Round 2

Conducted by: EESA

Mode: Offline

Venue: Room no. 119 and 02

Date: 22nd March 2023 (Friday)

Time: 11:30 A.M onwards

Participating Teams: 18

Introduction:

Inventrix Round 2, an initiative by EESA, was designed as a platform to nurture innovation, creativity, and entrepreneurship among participants. The event aimed to catalyze the development and presentation of groundbreaking ideas with the potential to positively impact society.

Event Highlights:

- ➢ The event commenced with a gracious welcome extended to the esteemed jury panel and enthusiastic participants.
- ➢ Throughout the event, a diverse array of innovative concepts were presented, ranging from sustainable technologies to novel approaches in various sectors.
- ➢ Each presentation not only highlighted the unique aspects of the idea but also emphasized its feasibility, potential social impact, and future growth prospects.
- ➢ The interactive sessions and engaging discussions enriched the experience, fostering collaboration and idea exchange among participants.


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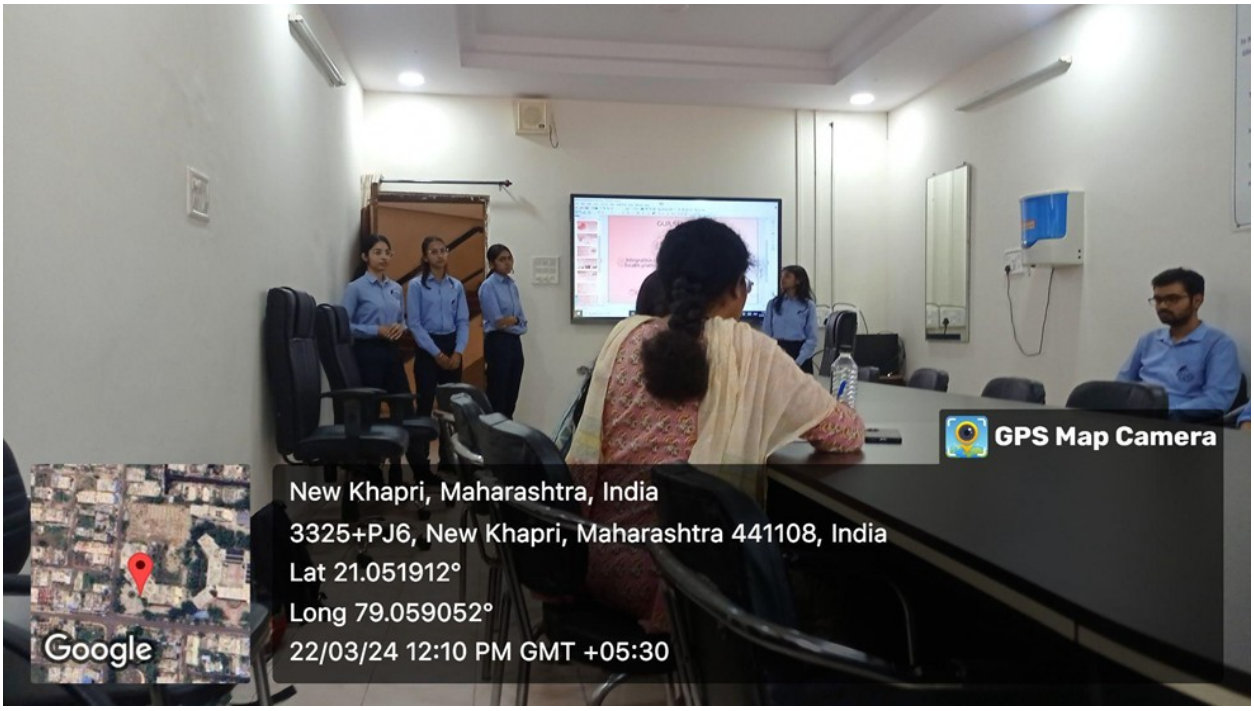
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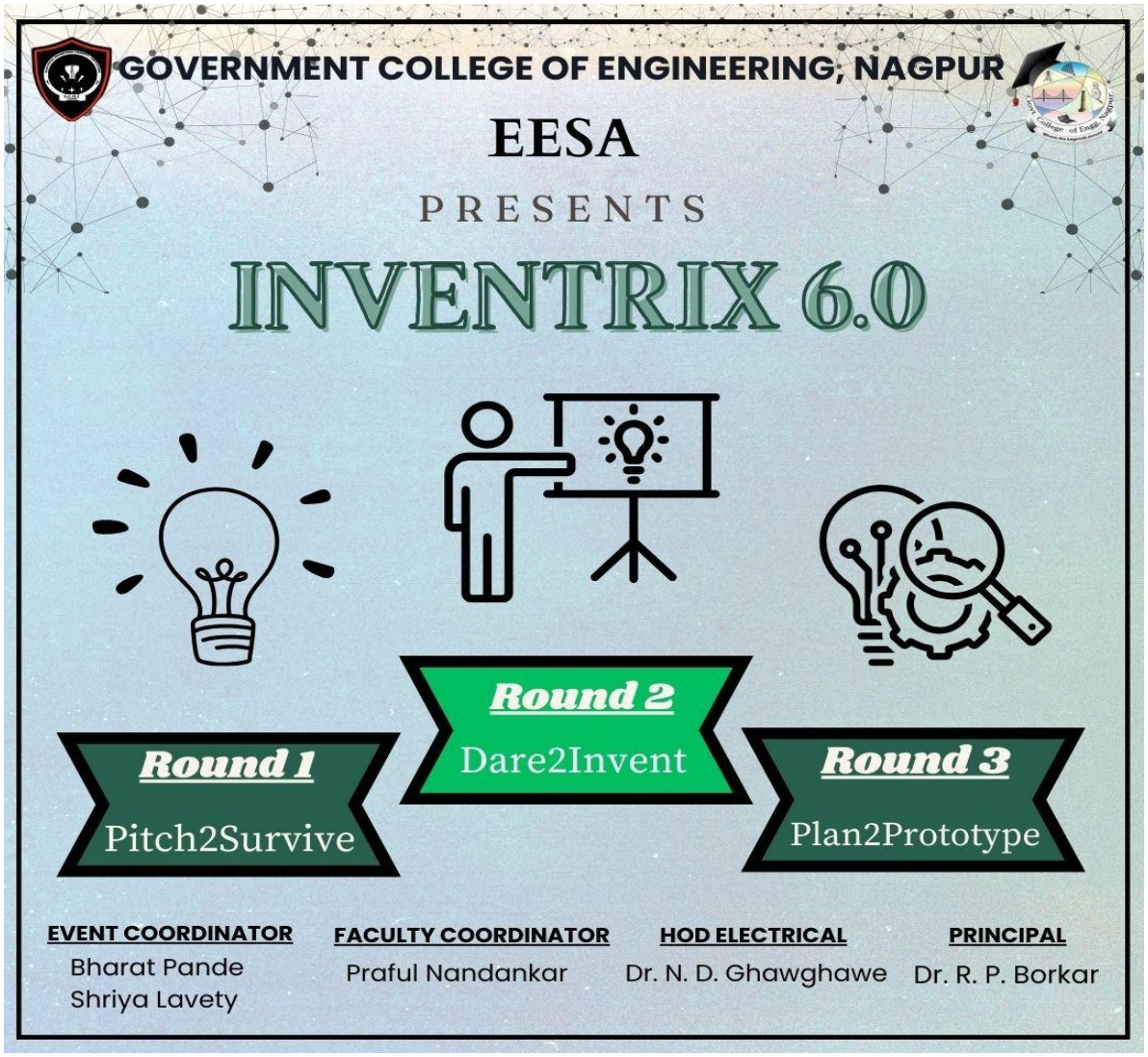
INVENTRIX 6.0 ROUND 3 PLAN 2 PROTOTYPE



Title: Inventrix 6.0 round 3 Plan-2-Prototype.

Conducted by: EESA

Mode of Activity: Offline

Venue: Auditorium (Room No. 2), Main Building, GCOEN

Date: 20th April 2024 (Saturday)

Time: 11:30 AM onwards

No. of qualified participants: 8

Glimpses of the Event: Click Here

Introduction:

The EESA committee organized the third round of the Inventrix 6.0 plan-to-prototype event on April 20, 2024. This round served as a continuation of the Dare-2-Invent round 2. Participants showcased prototypes addressing problem statements presented in the second round, covering various fields from recycling bins to energy meters to sports technology.

Pre-Event Highlights:

Distinguished guests for the event included Sarang Mahajan, DGM MEDA; Radharaman Shah, Associate Professor of TGPCET; and Dr. N. D Ghavghawe, HOD of Electrical Department at Government College of Engineering Nagpur.

The guests arrived at the college campus at approximately 11:15 AM and were escorted to the principal's cabin. They introduced themselves to the committee members and shared insights from their respective fields.

The guests joined the auditorium for the event at around 12:00 PM.

Event Highlights:

- The inauguration ceremony of Round 3 of Inventrix 6.0 commenced with enthusiasm, hosted by Arsh Sheikh and Shivani Gurnule. The event aimed to showcase innovation and creativity through prototypes developed by participating teams.
- Arsh Sheikh welcomed all attendees, including respected dignitaries, guests, and participants. The ceremony marked the culmination of Inventrix 6.0's third and final round, promising innovative prototypes addressing problem statements from Round 2.
- Dr. N.D Ghawghawe presented bouquets to Sarang Mahajan and Radharaman Shah, followed by President Rohit Bhoge presenting floral greetings to the Head of the Electrical Department.
- EESA Vice President, Bharat Pande, provided an introduction to Inventrix 6.0, highlighting its significance and objectives. He briefed the audience on the event's importance within the EESA committee.
- The Head of the Electrical Department encouraged participants to strive for excellence and innovation. Esteemed guests emphasized the importance of creativity and perseverance in innovation, sharing upcoming opportunities in both government and private sectors.
- A video presentation showcased the essence of Inventrix, setting the stage for subsequent proceedings. The ceremony concluded with a group photo session, symbolizing unity and collaboration.
- Shivani Gurnule provided essential event format information, including presenting teams, time allocations, and evaluation criteria.

- ➢ Throughout the event, prototypes were evaluated based on novelty, practicability, potential social impact, hardware demonstration, and Q&A sessions with judges, ensuring fairness and transparency.
- ➢ EESA Publicity Head, Anukul Ghosh, extended a vote of thanks to all participants, organizers, and attendees for their contributions to the success of Inventrix 6.0.
- ➢ The qualified teams presented their prototypes to the judges, with presentations lasting 20-25 minutes each. Feedback was shared via the Scrapbook maintained by EESA.

After deliberation, the results were announced:

- RecycleHub by Team MISSION_I_M_POSSIBLE
- Hawk Eye Technology by Team Aditya Barad
- GSM Based Rechargeable System for Energy Meter by Team Balance Keepers

With this, the sixth iteration of INVENTRIX concluded, marking a successful event dedicated to fostering innovation and excellence in engineering.

The conclusion of the sixth iteration of INVENTRIX not only marks the culmination of innovative endeavors but also signifies the beginning of a journey towards real-world implementation and impact. As these pioneering prototypes transition from concept to reality, they hold the potential to address pressing challenges, drive societal progress, and inspire future generations of innovators. The success of INVENTRIX 6.0 underscores the power of collaboration, creativity, and dedication in shaping a brighter, more innovative future. As we celebrate the achievements of the participating teams, let us also embrace the spirit of continuous innovation, propelling us towards new horizons of technological advancement and societal betterment.

Outputs:

1. Through organizing such an event, the EESA committee fosters collaboration among students, faculty, industry professionals, and other stakeholders. This collaboration can lead to new ideas, partnerships, and opportunities for everyone involved.
2. Organizing an event of this scale provides valuable hands-on experience for the organizing committee members. They gain skills in project management, communication, teamwork, problem-solving, and event planning, which are highly transferable to their future endeavors.
3. The presentations, speeches, and interactions during the event facilitate the exchange of knowledge and ideas among participants. Attendees can learn about the latest developments in their field, innovative solutions to common challenges, and emerging trends in technology and engineering.
4. By showcasing prototypes developed by participating teams, the event promotes a culture of innovation within the engineering community. It inspires students to think creatively, experiment with new ideas, and pursue their passion for technology and engineering.

Overall, organizing an event like Inventrix 6.0 can have far-reaching benefits for the participants, the organizing committee, and the broader engineering community, contributing to the advancement of knowledge, skills, and innovation in the field.

Photos:

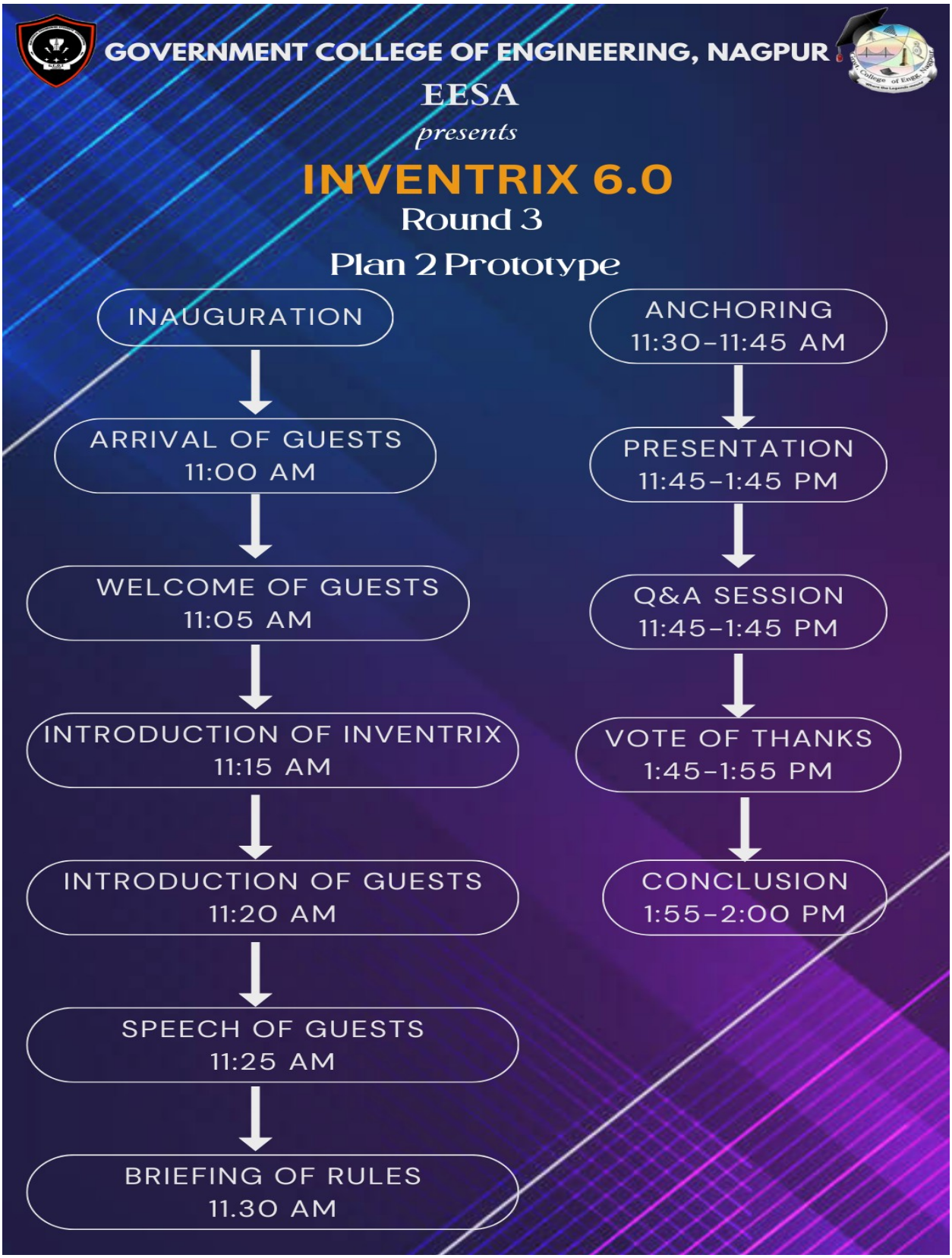
Government College of Engineering, Nagpur

Electrical Engineers Students Association

"Inventrix 6.0 Round 3"

Team-Wise Timing Slot

Sr. NO	Room	Team Name	Team Leader	Time Slot
1	Auditorium	MISSION_I_M_POSSIBLE	Mayank Gongal	11.30 AM
2	Auditorium	Balance Keepers	Shoeb Sheikh	11.45 AM
3	Auditorium	Catalyst Vipers	Aditya Barad	12.00 PM
4	Auditorium	Voyagers	Zishan Deshmukh	12.15 PM
5	Auditorium	PHOTON	KAUSTUBH KISHOR BHENDE	12.30 PM
6	Auditorium	The Pitchers	Shashank Shrivas	01.00 PM
7	Auditorium	Team RPB	Rohit Bhoge	01.15 PM
8	Auditorium	Team Prachiti	Prachiti Kinarkar	01.30 PM



Flow of the event

EESA 2023-24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