

Criterion 7

7.2: Best Practices

7.2.1. Best Practice - I : Professional skills exposure to students

Sr. No.	Parameter	Academic Year	Documents	
1	Best Practice – I : Professional skills exposure to students	2020-21	BAJA 2020-21	
2			Report _Formula Bharat	
3			Robocon 2020	
4			IEEE Exuberance	
5			IEEE -Writing your resume	
6			IEEE-Demostrar-2K20	
7			RoundTable	



PRINCIPAL M.M. College of Engineering Karvenagar, Pune -52

Report of BAJA SAEINDIA 2021

TEAM ABHEDYA, MMCOE

Team Abhedya Racing of Marathwada Mitra Mandal's College of Engineering, Pune participated in national level competition of BAJA 2021 SAE INDIA from 21 April 2021 to 24 April 2021 on virtual augmented platform due to on-going COVID 19 pandemic.

Team of 26 students participated in this event. The journey of the team began in May 2020 from recruitment of tem members via online aptitude test and interviews, students were then bifurcated in various departments like braking, suspension, transmission, roll-cage, steering and electronics. In August it was declared by SAE INDIA that the competition will be held virtually due COVID 19 pandemic.

We as team geared up of this new and difficult challenge. The registration of team for the competition was done on 26 August 2021 after which we began our designing phase. This ever we have designed AWD system in our racing ATV we are first team of our college to design this system.

The first round of the competition The Preliminary round was held in month of December where in basic design and validation of our ATV was tested and scrutinized SAE INDIA where in our team was selected to final leg of the competition.

After this we had design freeze and we began preparing for the static competitions like computer aided engineering (CAE), cost, sales, manufacturing, go green etc. During this it was notified the Dynamic abilities of the vehicle will be tested on ATS IPG Carmaker Software. We received this new challenge with spirit and cleared all the tests set up by SAE INDIA on IPG Carmaker software.

Achievements in BAJA SAEINDIA 2021:

AIR 1 IN GO GREEN EVENT where in teams have design catalytic converter we as team implemented use of fuel cell as catalytic converter which is innovation in itself.

AIR 6 IN CAE EVENT where we have used advances simulation, analysis software like ANSYS CFD, Adams simulation, KISSSOFT etc.

AIR 7 IN MANUFACTURING EVENT where the manufacturing process that will be implemented for our ATV was supposed to explained to expert panel of judges we implemented novel techniques like PFMEA, DFMEA, CTQ etc.

AIR 10 IN COST EVENT where various cost optimizing techniques were to be incorporated in order to keep the cost of the vehicle optimum.

Team has secured AIR 12 in overall static competitions among 150 participating teams.

Lastly we thank our college, mechanical department and all our teachers for their considerate and cordial support making this entire journey possible for us.

Mr. S. G. Kale Faculty Advisor

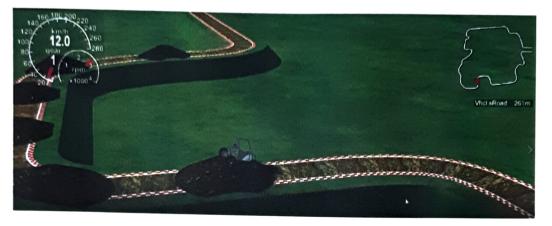
Dr. K. R. Patil

Sr. Faculty Advisor

Dr. P.S. Purandare H.O.D. (Mech Dept)



ATV 'VAJRA' AWD AUGMENTED DESIGN



VAJRA MANUVERING SNT TRACK ON IPG CARMAKER



AIR 1 in GO GREEN EVENT



MARATHWADA MITRA MANDAL'S college of engineering,



KARVENAGAR, PUNE-46

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TEAM ABHEDYA RACERS

AT

Formula Bharat (Virtual) (11th and 23th January 2021)

EVENT REPORT

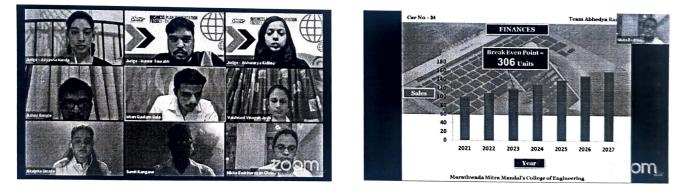


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January 11th, Business Presentation day

The energized business department with 6 team members had a final practice at 12:30 PM. The scheduled time for Team Abhedya Racers was 7:30 PM and the team was supposed to join in around 7:25 PM. The team was divided in two sub-groups - the presentation and the technical Q&A. The presentation group included 3 members while the Q&A was to be handled by other 3. The meeting started with host giving a brief about the flow of presentation, the total time slot for the team was 30 minutes out of which 5 minutes were for the setup, next 10mins for the presentation, followed by 10min session of Q&A and lastly signing off with a review from the panel.

We started the presentation started with a brief introduction of the team. Akalpita Umate started the presentation highlighting the problem statement, solutions we provide, target audience and the car specifications. This was then carried forward by Ishan Gala with the detailed description of our business idea, competitors and strategies. He also presented the preview of the app we designed. The app preview consisted of the short video and the app UI. After this the presentation moved on to the finance part which was put forward by Nikita Choudhary. These slides included the sales numbers, investment amount, equity shares. This concluded the presentation and we moved forward to the Q&A session. The panel asked question regarding the paperwork and the backup material for the amount we put in the presentation which was nicely handled by the team as they presented the required documents in the form of excel sheet. The panel then asked about the flow and the speakers for the presentation. With that they also liked the whole business idea and the paperwork. Lastly, they advised to work on the exit strategies although overall we received a positive acclaim from the panel.

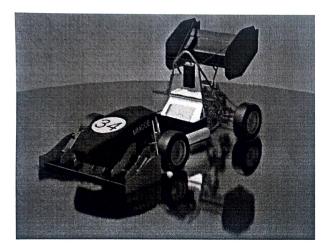


January 23rd, Design Presentation Day

Team gathered on online platform Zoom. Time slot chosen by team for presentation was 12 in the afternoon. There were 2 rooms (Room A and Room B) out of which Room B is allotted to us. Question and Answer session was divided into 2 halves with two different panel of judges covering different departments. Each session consisted of 25 minutes. Out of 25 first 20 minutes was allocated for question and answers and last 5 minutes for review by judges' panel.

For first session when we joined the room, with panel of 3 judges and a host present there. After the introduction of the team by the host, Judges started the session by asking various questions on transmission and suspension systems. For suspension Sanket Haridas took the charge answering almost all the questions. The Q&A went back and forth between the team and the judges for about 10-15 mins. In last 5 minutes judges guided us based on the answers given by team. After a short break of 5 minutes, next panel of 3 judges joined the room. They questioned us about

Aerodynamics, Roll Cage and analysis of our prototype. For questions related to Roll Cage, Tejas Sonaje answered. During the review Judges advised us about few points which we have missed while preparing for the presentation. The panel advised the team to present the design in more pictorial format. The team got very positive response for the aerodynamics even though it was our first time introducing the same. Lastly, they praised the Team overall presentation.





Finance:

Registration Rs. 25,000/-

Prof. A. D. Desale Additional Faculty Advisor, MMCOE SAEINDIA Collegiate Club

Dr. K. R. Patil Senior Faculty Advisor, MMCOE SAEINDIA Collegiate Club

Dr. P. S. Purandare HOD Mechanical Engg.



Marathwada Mitra Mandal's COLLEGE OF ENGINEERING

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ROBOCON 2020

Faculty Advisor -Prof. Gaurao Chaudhary Prof. Shubhangi Joshi

Introduction -

Team Rudra is the Robotics Club of Marathwada Mitra Mandal's College of Engineering. Team Rudra has been participating in ABU Robocon since 2015. Robocon is a Robotics contest organised by Asia Pacific Broadcasting Union where teams of engineering students from various countries in Asia Pacific Region compete to complete the given tasks.

Every year the host country selects the game theme based on their culture and traditions. All the participating teams develop 2 Robots to complete the given tasks within the set time constraints.

Since our debut in Robocon 2015, where we were awarded the "Best Rookie Award". Team Rudra has shown remarkable progress in a very short time span, currently acknowledged as one of India's Best Teams.

Organizing Country - Fiji

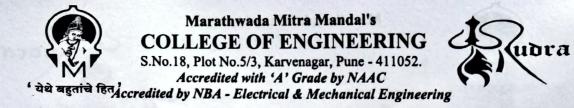
Theme - "Robo Rugby 7's"

Theme Implementation -

The game was based on Fiji's national sport rugby. The theme was "ROBO RUGBY 7s", in this game, each team had to design two robots, one as a pass robot and another as a try robot. The pass robot had to pick up the rugby balls, and the try robot needed to either place them to the trying spot, or to kick the ball passing through a pole. The game would end when three minutes had passed, or when all seven kicking balls (shared for both teams) had been kicked.

Team Achievement -

Team Rudra scored an excellent 91 out of 100 in the first round of ABU-Robocon 2020.



Unfortunately, the next rounds of the competition were hosted online, which consisted of the video submission and a live demo round. Our workshop had shut down in the mid-March due to the devastating pandemic, Covid-19. But through all this, even after receiving the competition notice just 3 weeks ago, the team didn't just build robots, but managed to pull off everything with less than half the resources, people and time. And even after all this, Team Rudra Scored AIR 21 in the main event, DD-Robocon hosted by IIT- Delhi.

Also, the entire team coordinated, hosted and participated in various activities online for sharing and increasing their knowledge

Team List -

Name	Branch	Year	
Swaraj Deogaonkar	E&TC Engineering	Final Year	
Anurag Karambelkar	Mechanical Engineering	Third Year	
Atharva Kulkarni	Mechanical Engineering	Third Year	
Chinmay Kashid	Mechanical Engineering	Third Year	
Ganesh Patil	Mechanical Engineering	Third Year	
Atharva Chavan	E&TC Engineering	Third Year	
Atharv Belsare	E&TC Engineering	Third Year	
Sameeran Chandorkar	E&TC Engineering	Third Year	
Prathamesh Phulpagar	Computer Engineering	Third Year	
Akash Patil	Mechanical Engineering	Second Year	
Aniket Mandge	Mechanical Engineering	Second Year	
Atharva Devare	Mechanical Engineering	Second Year	
Darshan Kulkarni	Mechanical Engineering	Second Year	
Nishant Bhamare	Mechanical Engineering	Second Year	



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Yash Makode	Mechanical Engineering	Second Year	
Aniket Choudhari	E&TC Engineering	Second Year	
Rituja Yeole	E&TC Engineering	Second Year	
Rucha Joshi	E&TC Engineering	Second Year	
Saurabh Natu	E&TC Engineering	Second Year	
Trupti Parate	E&TC Engineering	Second Year	
Aayush Gavande	Computer Engineering	Second Year	
Anuj Mokashi	Computer Engineering	Second Year	
Mayur Dahibhate	Computer Engineering	Second Year	
Preetam Maske	Computer Engineering	Second Year	
Soham Pingat	Computer Engineering	Second Year	

Faculty Advisor Prof. Gaurao Chaudhary Prof. Shubhangi Joshi



Marathwada Mitra Mandal's, College of Engineering, Karvenagar, Pune



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MMCOE IEEE Student Branch

Event Name: "IEEE Exuberance" Week

- **Event date: 8th March to 13th March 2021**
- > Platform: Google Meet

IEEE Student Branch of MMCOE had organized a week of enlightening events under the name "IEEE Exuberance", from 8th March 2021 to 13th March 2021. The motto behind this event was to acquaint the students with some important life skills, and to let the students express their talent.

The first event on 8th March was a cultural competition, in which the students were expected to make a video of their performance which portrayed the Indian culture in some way. All kinds of singing, dancing, poetry and instrumental performances were accepted. 15 participants competed in this competition, and the submissions of all participants were accepted on 8th March.

On the second day, i.e., 9th March 2021, a webinar was conducted on "Career Benefits of IEEE" which was arranged for students as well as faculty members. The speaker for this webinar was Dr. Amar Buchade sir, who is the IEEE Pune Section Secretary and the Chair of IEEE Pune Section SIGHT group. This webinar focused on conveying the potential of an IEEE membership to everyone, and the benefits and exposure that IEEE can provide in a one's professional and academic career. We received 75 registrations for this webinar.

On 10th March 2021, a webinar was held on the topic "How to improve yourself by learning basic psychology". The speaker for this webinar was Mrs. Dhanashree Pathak, who is a self-awareness and well-being coach, as well as a psychological counselor. Taking into account the awareness of mental health, this session was specially organized for students. The speaker focused on topics like daily anxiety, peer-pressure, stress, negativity etc. and explained how to deal with these emotions effectively. It was a very insightful session all-in all, with a great response of 90 registrations. 11th March 2021 was the fourth day of Exuberance week. A short technical session on "Design

Thinking" was conducted on this day. The speaker for this webinar was Ms. Bhakti Bhikne, who works as a product designer at Loop Health. This session revolved around the approach while designing a particular UI/UX, and how to make it user friendly and understandable, while preserving the aesthetics of the design. We had 70 participants for this session.

12th March 2021 was dedicated to another webinar about well-being, which was titled "Stress relief and emotional balance through arts". Mrs. Astha Godbole Karlekar was the speaker for this webinar, who is a renowned Kathak dancer and choreographer. She stressed on the importance of

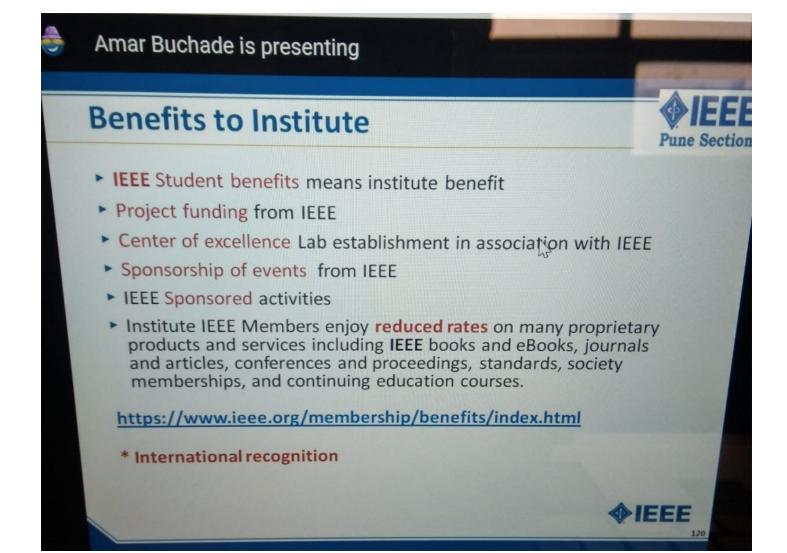
pursuing arts, and the emotional and physical balance one can achieve through it. There were 60 participants for this webinar.

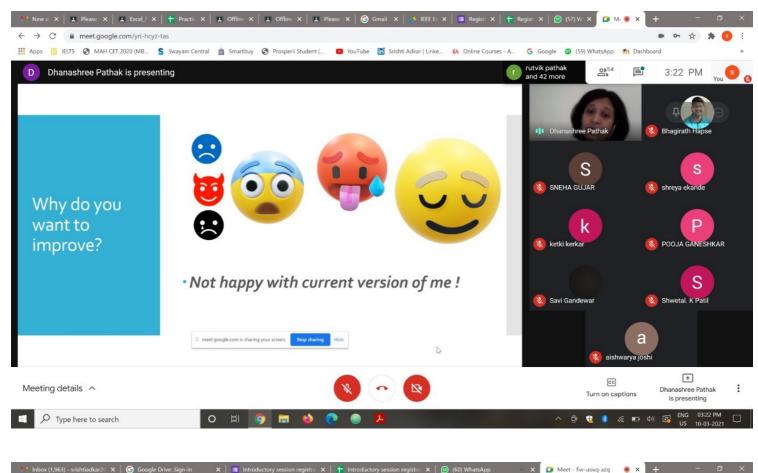
The last day of Exuberance week was 13th March 2021. The prize winners of the cultural competition were announced on this day. The first two prize winners were given a cash prize.

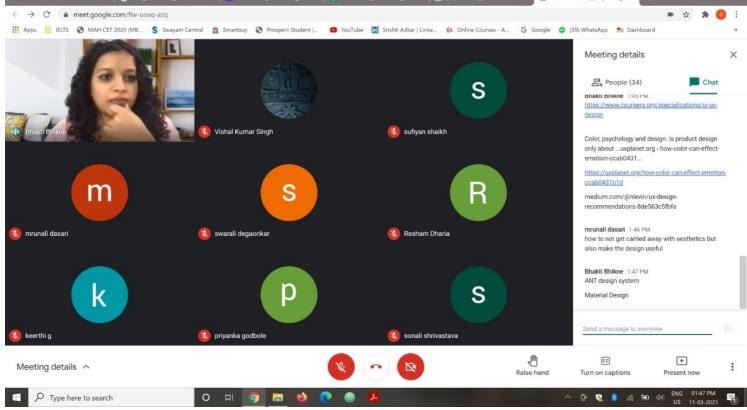
The total number of participants for the entire week-long event was approximately 300. Everybody who had participated in this event received e-certificates.

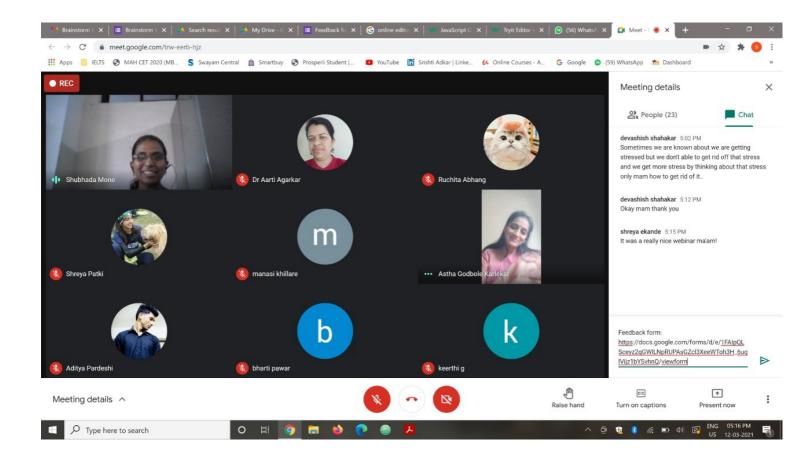


Some screenshots of the Event:



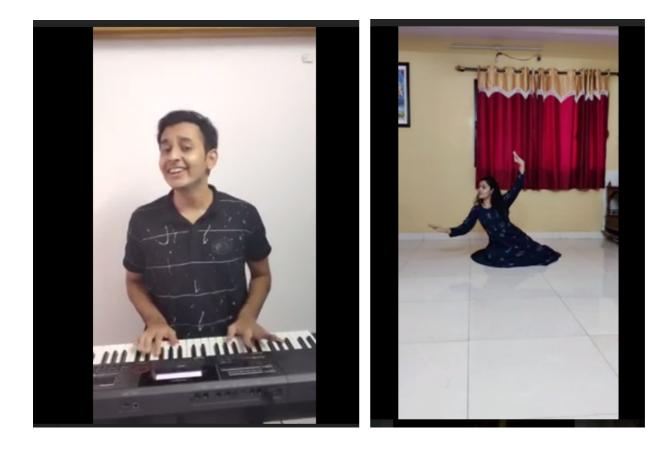






Cultural Competition Performances:







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MMCOE IEEE Student Branch

Event Name: "Writing your resume"

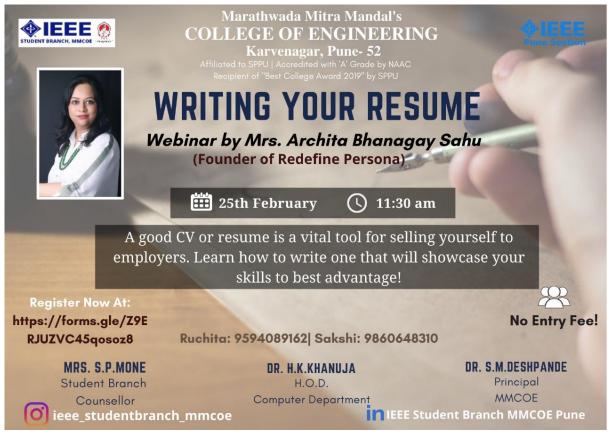
- Event date: 25th February 2021
- Platform: Zoom Meetings

IEEE Student Branch MMCOE had organized a free webinar on "Resume Writing and Interview Tips" on 25th February 2021. The speaker of this webinar was Mrs. Archita Bhanagay Sahu, who is the founder of "Redefine Persona" that offers corporate training and behavioural skills coaching. The webinar was conducted with an aim to give the students an idea, about how one should approach their interviews and placement drives.

We received 270 registrations for this webinar from Pune, Hyderabad, Solapur, Sangamner, Aurangabad, Satara and Nashik and Ichalkaranji with over 200 students attended the session.

The session focused on tips to make your resume presentable and strong. The speakers also explained the importance of professional behaviour and proper appearance while appearing for an interview with a company. It was a very interactive webinar and the students were able to get an insight on the general expectation of recruiters, regarding placements.

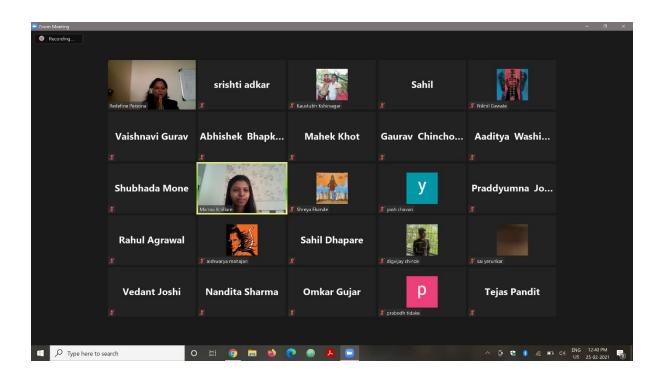
Event Leaflet:



Some screenshots of the Event:

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MMCOE/IEEE/COMP/2020-21 SEM-II



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MMCOE IEEE Student Branch

Event Name: Demostrar 2K20: "Project Idea Presentation Competition"

Event date: July 18, 2020

Platform: Google Meet

MMCOE- IEEE Student Branch had organized a competition "Demostrar-2K20: Idea Presentation Competition". The main objective of this event was to motivate students to bring some innovative ideas and enhance their skills of presentation and communication. The competition consisted of 36 teams, with each team having a maximum of 3 participants. It consisted of 3 rounds, in which the first two were elimination rounds.

Final round was the Q n A round which was conducted on Google Meet. The groups were divided according to their departments, namely Computer/IT, E&TC and Mechanical.

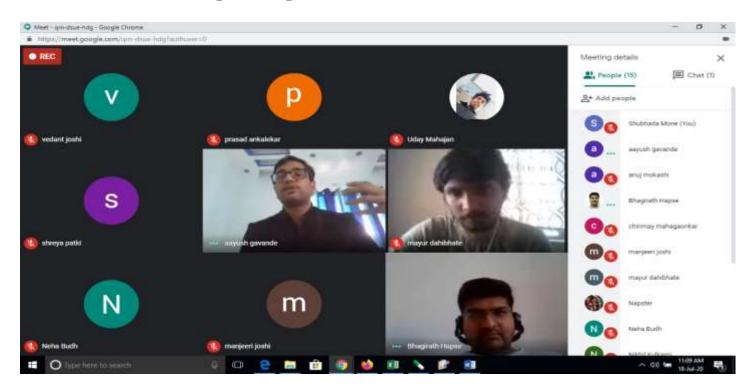
This was a project idea presentation competition conducted in following rounds: Round 1. Document (Synopsis) Submission (in .pdf/.doc) deadline: 12th July 2020 Round 2. PPT Presentation with an audio explanation held on 16th July 2020 Round 3. Live Q/A round by Judges on 18th July 2020

The winners of the competition were declared on 19th July 2020. Ms. Shweta Dindore and Ms. Ruchita Gholap (E&TC Department) were the winners of the competition, and were awarded with a cash prize of Rs.1500. Ms. Prachiti Adsul (Mechanical Department) was the runner up and was awarded with a cash prize of Rs.1000. All the participants of the competition received certificates for participation.

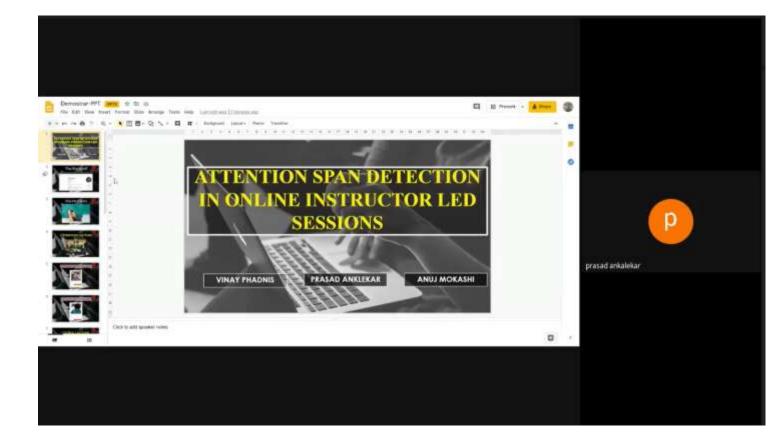
Consolation prizes were given to Sameeran Chandorkar, Atharv Belsare, Atharva Chavan(E&TC Department), Vinay Phadnis, Prasad Anklekar, Anuj Mokashi(Computer Department) and Aayush Gavande, Mayur Dahibhate(Computer Department).

Following was the designed leaflet for the event:

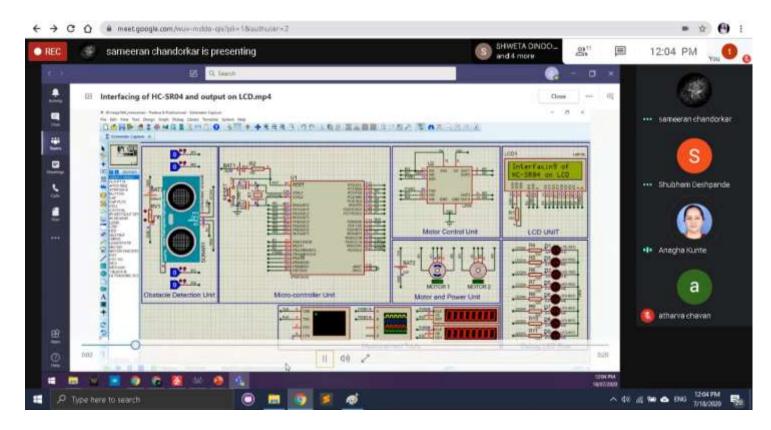


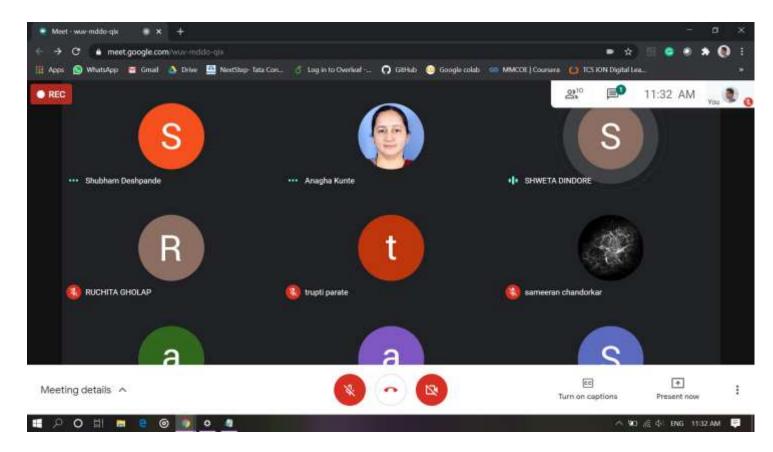


Some screenshots of **Computer Dept**. Final Q&A round:

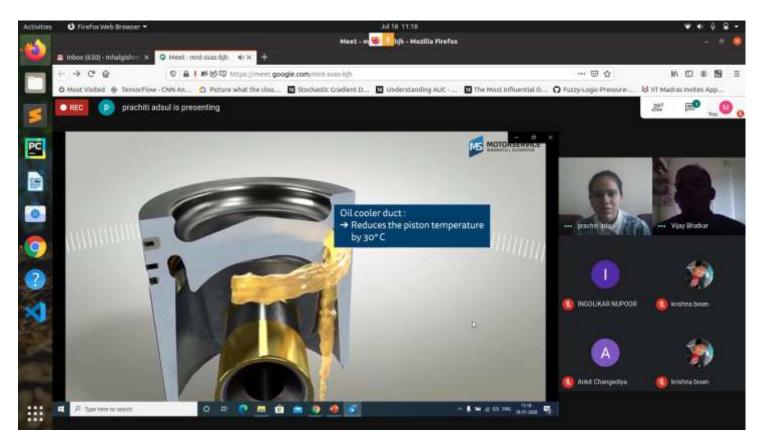


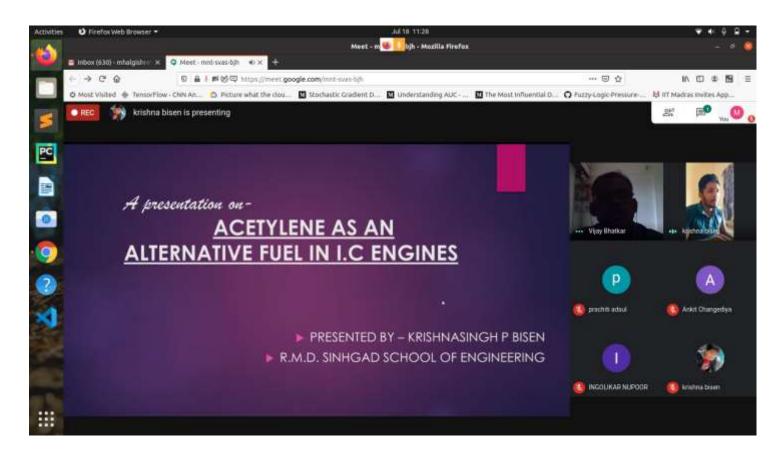
Some screenshots of **Electronics & Telecommunication Dept**. Final Q&A round:





Some screenshots of Mechanical Dept. Final Q&A round:







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MMCOE IEEE Student Branch

Event Name: "RoundTable: A Webinar Series"

Event date: 08th to 10th October 2020

> Platform: Google Meet

MMCOE- IEEE Student Branch had organized an event "ROUNDTABLE: The webinar Series". The main objective of this event was to introduce the students to some popular and fast-growing domains in the industry and to encourage them to explore these domains further.

The event duration was 3 days, from 8th to 10th October 2020. 5 webinars were arranged in the span of these 3 days. Three of these webinars were technical, and the remaining two were non-technical. Total 97 students were participated in different webinars during these 3 days.

The first webinar on 8th October at 11:00am, was on the topic Quantum Computing. The speaker for this webinar was Mr. Vinay Phadnis, who is a Udemy instructor, and a Quantum Computing Meetup instructor at Zen4Quantum meetup group in Santa Clara, California. He is also a student of MMCOE from third year computer department. He elaborated the fundamentals of quantum computing, and explained as to why is it a remarkably emerging domain that needs to be explored.

The second webinar on the same day was held at 1:30pm, which was on the topic "Electric Vehicle Technology". The speaker for this webinar was Mr. Ashish Deshpande, who is the General Manager-Electrification at FEV India Pvt. Ltd. Pune. He put forth the architecture and working of electric cars, and spoke about why electric cars are the future of the automobile industry.

"Internet of Things" was the topic of the third webinar which was held on 9th October 2020 at 11:00 am. Mr. Rakshit Satija, who is the Vice Chairperson of IEEE MSIT Delhi, conducted this webinar. He put forth all the basics concepts of IoT, its structure, and applications. This webinar was followed by a live demonstration of his own project based on IoT.

The first non-technical webinar, and the fourth of the entire series, was held on 9th October at 1:30 pm. The topic of this webinar was "How I built my Start-up". Rohan Thuse, the CEO of Prosperii, and an alumnus of MMCOE was the speaker. This webinar focused on the speaker's experience of building his own business. He discussed various aspects of start-ups, its challenges and requirements, and how should a person's approach be, while establishing his/her own start-up.

The final webinar of the series was about IEEE, and its benefits. Mr. Gaurav Sonawane, the Student Section Representative of the IEEE Pune Section was the Speaker. The topic of the webinar was "Why choose to be a part of IEEE" and it was held on 10th October 2020 at 11:00am. This intent of this webinar was to acquaint the students with IEEE, and to inform them about all the ongoing events under it, as well

as the benefits of being a part of this organization. The speaker also shared his personal experiences of working and volunteering for IEEE, to encourage the students to be a part of it.

Outcome:

Students were able to:

Learn about some emerging domains, and got a perspective about the demands of the industry. They were encouraged to explore new domains and were introduced to many young inspirational personalities.

Following was the designed leaflet for the event:



Marathwada Mitra Mandal's **COLLEGE OF ENGINEERING** Karvenagar, Pune- 52.



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MMCOE IEEE branch Presents

A SERIES OF 5 WEBINARS **ROUND FARIF**

THE PANEL OF SPEAKERS

VINAY PHADNIS Quantum Computing Fundamentals

ASHISH

Electric Vehicle

Technology



SATIJA Internet Of Things



ROHAN THUSE How | Built My Start-up?



GAURAV SONAWANE Why Choose to be a part of IEEE?

We are proud to present our Panel of exceptionally talented and eloquent speakers who have great expertise in their fields of study. To know more, Visit: bit.ly/ieee-mmcoe

EVENT DATES 8-9-10 OCTOBER



Announcing Huge Discounts!

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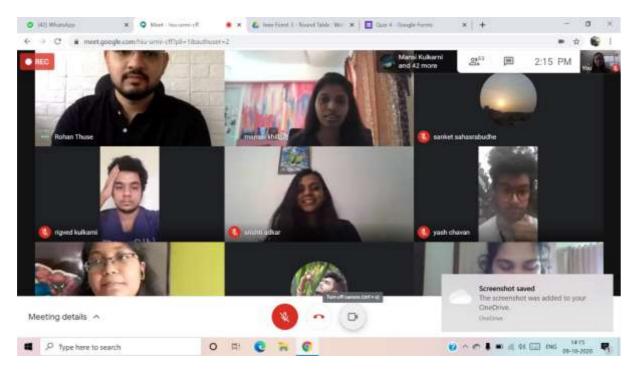


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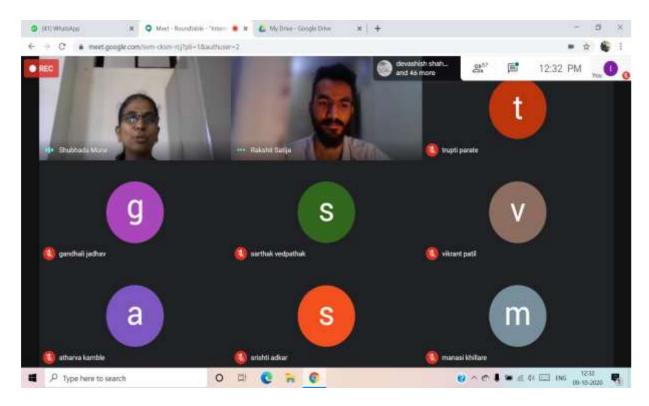
Some screenshots of the Event:



Q&A session in Quantum Computing webinar



Mr. Rohan Thuse focusing on Business Skills



Mr. Rakshit Satija delivered one session



Mr. Rohan Thuse focusing on Business Analytics