

MECHANICAL ENGINEERING STUDENTS ASSOCIATION

(M.E.S.A)

TECHNICAL EVENT



TECHTRONIX 2K20-21



Modern Education Society's
COLLEGE OF ENGINEERING, PUNE-01

About MECHANICAL ENGINEERING STUDENTS ASSOCIATION (MESA)

MESA is MESCOE Mechanical Student Association. The MESA was formed to bring about the technical development of students by organizing seminars, workshops and other activities and also to improve non-technical abilities of students by engendering good communication skills, managerial abilities, presentation skills and team work.

Objectives

- To Promote the interaction between academia and industry by organizing industrial visits, special lectures and facilitate in industrial training
- Promoting the interests of students in various technical areas pertaining to mechanical engineering
- To encourage students of the mechanical Engineering department to develop their personal skills, like event management & time management by organizing inter & inter Collegiate Events
- To bring about the technical development of students by organizing seminars, workshops and other activities.

Outcomes:

The students will be able to

- Develop their technical and non-technical competitive skill
- Develop their communication skills, managerial abilities, presentation skills and team work.
- Put forth their ideas

Role of the Faculty Coordinator:

- The faculty coordinator will be responsible for team selection.
- Faculty coordinator have all rights to terminate any non performing member in the committee.
- All purchases for event conduction must be processed through faculty coordinator.
- All events should be conducted under the guidance of respective coordinator as well as respective event coordinators.

Team Selection Policy:

- Academic result is considered for the post of President and Vice-President
- All interested students for committee members are called for interview.
- The interview is conducted by faculty coordinator, Senior faculties and President in Semester II and charge is handed over to new President and committee members
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MESA Committee member 2020-21

MESA Faculty Advisor- Dr. S. H. Gawande & Prof. H. S. Salave

President	Zameer Khan
Vice President	Atharva Gaikwad
Secretary	Chinmay Sheth
Treasurer	1. Prajwal Patil 2. Kshitij Babar
Event Monitoring Head	Kanishka Deshak
Digital Marketing Head	1. Prathamesh Jaju (H) 2. Pratik Mane 3. Saidhan Pawar
Ladies Representative(LR)	Rutuja Kankate
Sponsorship/ Publicity Heads	Kunal Thakur
Content Creators	Arvind Gulankar
Documentation Heads	Tejas Veer
Event Head	1. Jayesh Patil 2. Nikhil Shinde 3. Siddhant Vidhate 4. Abhishek Atule 5. Karan Gandhi 6. Prathamesh Bhadane 7. Sanket Mashalkar
Event Co-ordinator	1. Dishant Shinde 2. Pranav Bharate 3. Abhishek Patil 4. Samarth Patil 5. Sanket Nehete
MESA Co-ordinators	1. Milind Patel 2. Suyog Deshpande 3. Aditya Mahamuni

MINDKRAFT

Event Head:- Jayesh Patil (9307659252).

Event Co-ordinators / Volunteers:-

Event Dates:- 22nd & 23rd January 2021.

Event Venue:- Virtual platform.

Event Time:- Round 1:- 10:30am (22nd January 2021).

Round 2:- 4:00pm (22nd January 2021).

Round 3:- 11:00am (23rd January 2021).

Event Type (Individual / Team):- Individual.

Prizes:- Cash prize along with certificate of appreciation for winner & runner-up. Participation certificates for all the participants.

Total Number of Participants (Individual / Team):- 18.

Event Summary:-

MindKraft was a virtual inter-disciplinary quiz event which was conducted in 3 rounds. All the preparations for this event were started from 14th January 2021 onwards by the respective event head & event co-ordinators / volunteers. The preparations included designing of the rounds, preparation of the question bank for each round, event poster making, event publicity & all other necessary tasks. Finally after all the preparations, the event posters were released on various social media platforms on 19th January 2021. Registrations were open from 19th January 2021 till 21st January 2021. Round 1 & round 2 were conducted on 22nd January 2021 at 10:30am & 4:00pm respectively on Quizizz app. Prior to round 1, a demo round was also conducted on 22nd January 2021 at 10:00am to make the participants comfortable with the event platform & solve the technical glitches if any. Demo round consisted of 10 questions and round 1 & round 2 had 20 questions each. All the questions were related to general knowledge (GK), mental ability & logical reasoning. Every question had a well-defined time frame of ranging between 30 to 60 seconds as per the difficulty level of the particular question. Rounds 1 & 2 carried a weightage of 20 points each. From a total of 18 participants in round 1, top 11 scorers were qualified for round 2 & out of these 11, top 7 scorers were qualified for round 3. There was no negative marking for rounds 1 & 2. Round 3 was conducted the next day i.e. 23rd January 2021 at 11:00am on google meet platform. It was a face to face round where each participant had a unique set of 10 questions (5 general knowledge questions & 5 questions related to the participant's field of study). Each question had a time limit of 10 seconds. Round 3 carried a weightage of 100 points. +10 points were allotted for every correct answer & -5 for every incorrect answer. Finally, top 2 scorers from round 3 were declared as winner & runner-up respectively. Every round was completed within approximately 20 minutes.



Modern Education Society's
College of Engineering, Pune
Department of Mechanical Engineering
MESA PRESENTS
TECHTRONIX-2K21

Event Head
Jayesh Patil - 9307659252

Mind Kraft
Entry Fees 20/-

Registration
19th Jan - 21th Jan

Event Dates
22nd Jan - 23rd Jan 2021

Assured cash prizes to winner and participation certificate to all.

List of Participants

Sr. No.	Name	Contact No.	College Name
1.	Maithili Baviskar	8767987244	Smt. Sarachhchandrika Suresh Patil Institute of Technology (Polytechnic)
2.	Abhijeet Gavhande	9763348586	MESCOE
3.	Rupali Dipke	9764953836	MESCOE
4.	Sanket Nehete	9922746583	MESCOE
5.	Soham Bagul	7620827545	KVN Naik Nashik
6.	Dhiraj Patil	8767448852	KK Wagh
7.	Jivan Thakare	9561897402	GP Jalgaon
8.	Mayur Patil	7083019821	PES Modern College
9.	Aniket Kale	9689432678	Modern College Shivajinagar
10.	Tejas Veer	7796761425	MESCOE
11.	Janhavi Patil	9307570055	RC Patel Shirpur
12.	Yukta Patil	8788281575	RCPIT
13.	Abulhasan Arab	7020606407	MESCOE
14.	Ganesh Jambhale	9763022275	MMIT
15.	Aniket Thombare	9423643085	MESCOE
16.	Arvind Gulankar	8975935273	MESCOE
17.	Harshada Nemade	8080006346	SFIT
18.	Arya Joshi	8459758862	JNEC

PICXELLENS

Event Head - Samarth Patil

Event Co-ordinators - 1. Abhishek Patil

2. Pranav Bharate

Duration – 25th Jan- 30th Jan 2021

No of Participants - 24

REPORT:

The event started from 25th Jan at 9 am with the presence of event head and event coordinators & other MESA members. All the participants were given the rules and regulations through google form link. Details of the competition were explained on What's app group.

PICXELLENS was the photography competition of individual ones showcasing their best clicks in specific categories.

Categories were 1. Flora and Fauna.

2. Still life.

3. Macro.

We started the event by posting the photographs on Instagram platform. Each participant had to share their own photographs and bring the maximum amount of likes. The one with the highest no of likes was declared as winner. Also winner from each category was chosen by professional. All of the participants enjoyed a lot in this competition and had received a good responses from them. Everyone in the team helped during the event and was successfully conducted.

Event winners:

- Shraddha Ghorpade (Most likes on Instagram)
- Kailas Muthawat (Flora & Fauna)
- Prathamesh Pande (Still life)
- Atharva Dhamale (Macro)

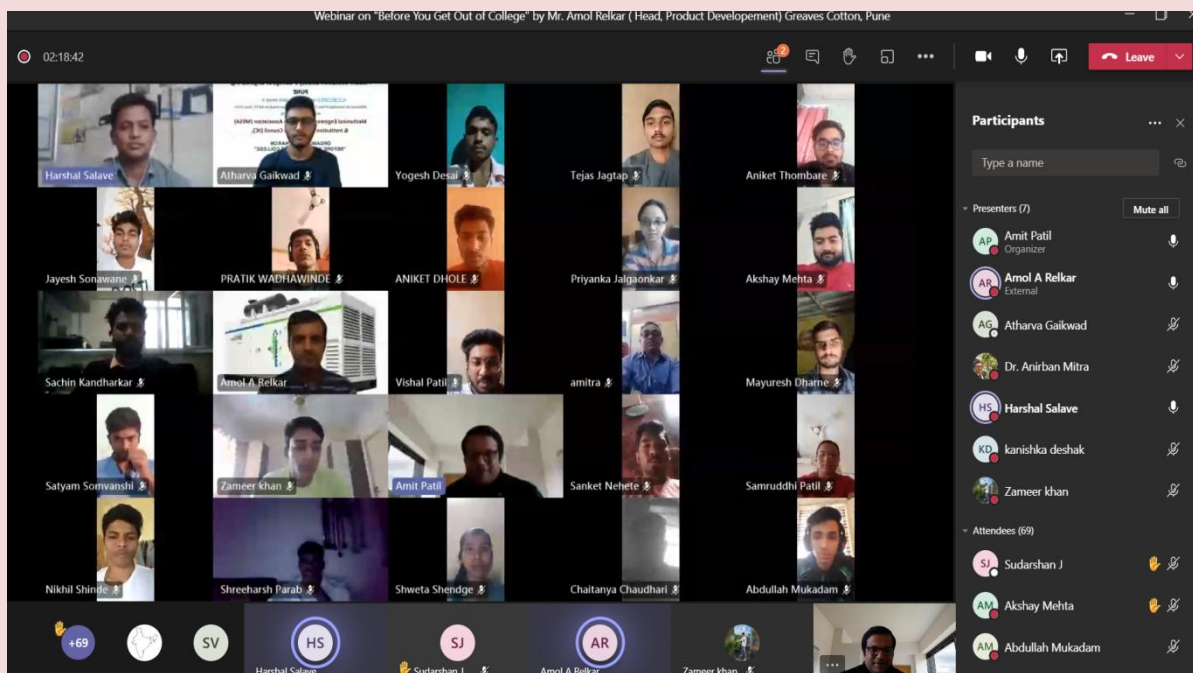
List of Participants:-

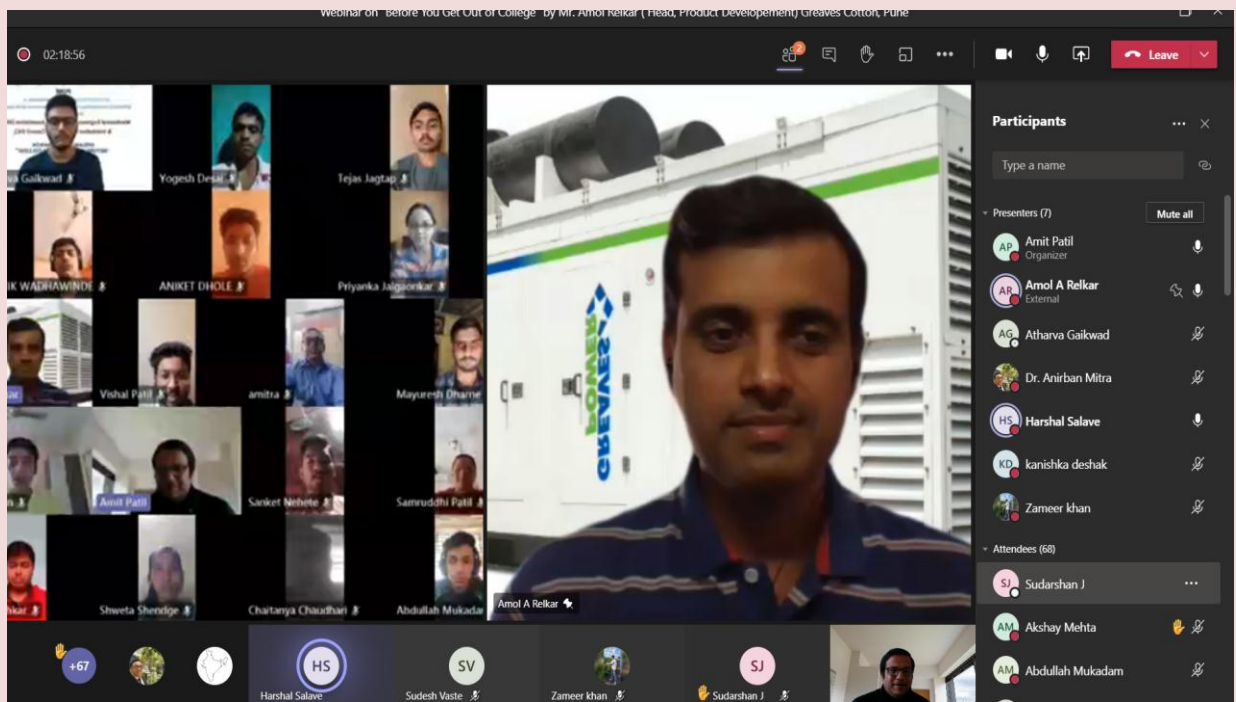
1. LAUKIK SANTOSH SAWAI	9689535375	GOVERNMENT POLYTECHNIC PUNE
2. SIDDHIDA AMIT MADKI	7507133697	D Y Patil Medical College Kolhapur
3. KAILAS SANJAY MUTHAWAT	9423065464	YCM Dental College, Ahmednagar
4. ROHIT HAVSHETTI	7263078819	Sangmeshwar collage, solapur
5. SAMRUDDHI PRADIP SHETE	8767058789	MESCOE
6. SHRADDHA RAMRAJE GHORPADE	7620868745	Vidya Pratishthan school of Architecture, Baramati
7. Sakshi Satish Naikwade	8421873353	Tilak Ayurvedic Mahavidyalaya Pune
8. SAYALI VIKAS DHADGE	7757910462	Modern education society's college of engineering pune
9. SHAH KUNIKA	7720950760	VPKBIET Baramati
10. HARSHAL RAMDAS SHINDE	9763533588	Modern Education Society's College Of Engineering
11. Sudha Rajendra ingole	9665123718	Vidya pratishthan school of architecture Baramati
12. VAISHNAVI MACHALE	8888595375	Pune Vidyarthi Griha's College of Engineering,Pune
13. CHAITANYA SANTOSH SALUNKE	7276692717	N.K Orchid College of Engineering And Technology
14. PRATHAMESH DHANANJAY THAKARE	7385016891	NK ORCHID COLLEGE OF ENGINEERING AND TECHNOLOGY SOLAPUR
15. SHARWARI LAVKUMAR KALE	7841906332	WIT
16. ADITI GADKAR	9326578268	MGM Dental College and Hospital
17. DEVYANI JAGTAP	7038525185	Abhinav Kala mahavidyalaya,pune
18. Siddhi Satyajit Taware	7666293141	Vidya Pratishthan School of Architecture
19. SANSKAAR SURENDER SHANKHALA	7030231799	Late Shri Yashwantrao Chavan Dental College, Ahmednagar
20. SAKSHI LALASO BHOSALE	9067828865	Vidya partishtans school of architecture
21. IMRAN PATHAN	7972945951	MODERN EDUCATION SOCIETY'S COLLEGE OF ENGINEERING, PUNE
22. PRIYA DONGRE	72197 51506	MESCOE
23. Prathamesh Makrand Pande	8624825851	D Y Patil Akurdi
24. ATHARVA SUDHIR DHAMALE	7028836657	Modern Education Society College of engineering

TECHNICAL TALK

- **Title of the Event:** Guest Lecture
- **Academic Year:** 2021
- **Quarter:** 1
- **Program/ Activity Name:** Before You Get Out of College.
- **Program Driven By:** MESA & IIC
- **Program Type:** Motivation Speech
- **Program Theme:** Skill Development
- **Start Date:** 06th February 2021 **End Date:** 06th February 2021
- **Total Duration:** 100 mins
- **Number of Participants:** 117
 - MESCOE Student- 78MESCOE Faculty- 33Ext. Participant Student - 02 Ext. Participant Faculty- 01
- **Total Expenditure:** Rs.2000/-
- **Mode of session delivery:** Online Mode
- **Sponsorship Details** (*if any*): None
- **Overview:**
 - Objective: To help students realize the value of skillsets that they have and that they need to acquire in future in order to survive in this competitive field of engineering. To help them gain insights of the current industrial scenario especially mechanical related. To highlight the fact that there are numerous job opportunities irrespective of the stream, students just need to focus on particular things to adjust themselves according to the current scenario.
 - Outcome in terms of Learning/ Skill/ knowledge obtained: Student got clear idea about various new buzz words and processes that's in vogue right now like AI/ ML/ Big Data/ Deep Learning/Block chain etc. and the importance to learn some of the above mention subjects.
 - Summary report of the activity: MESCOE MESA & IIC-Innovation cell has organized a Guest lecture on 'Before You Get Out of College' on the date 06th Feb 2021 from 11:00 AM to 12:30PM on Microsoft Teams Meet. The guest of Honour was an eminent speaker Mr. Amol Relkar. The main

- point of the session was to focus on good habits to promote self-development. In this lecture he stated what all a student needs to do in order to keep growing and learning things that are driving the industry right now, passion and trust, which makes you best. Students were inspired by his motivational statement. At end of session there was short questionnaire part in which students as well as faculty participated actively.
- **Name of activity Coordinator:** Prof. H.S. Salave.
- **Name of activity Speaker:** Mr. Amol Relkar
- **Name of Student Coordinators:** 1. Zameer Khan 2. Kanishka Deshak 3. Atharva Gaikwad, Chinmay Sheth 5. Abulhasan Arab
- **Link of Google Drive folder:**
https://drive.google.com/folderview?id=1SS9_y2bqM385wLDJVxBrfrZEyw0XwT_4





Vision of Department

To groom Motivated, Environmental friendly, Self-esteemed, Creative and Oriented Mechanical Engineers

Mission of Department:

To Develop Industry Oriented Manpower to accept the challenges of Globalization by,

- Imparting mechanical engineering knowledge through trained faculty in conducive environment,
- Creating awareness about the needs of mechanical industries through alumni and industry-institute interactions
- Encouraging them to think innovatively and introduce them to various research activities
- Supporting them to groom in all aspects like communication, interpersonal skills.

Program Educational Objectives:

The following Program Educational Objectives are established for the Mechanical Engineering:

- I. To prepare students with strong foundation in mathematical, scientific and engineering fundamentals that will enable them to have successful career in Mechanical and Interdisciplinary Industries
- II. To prepare students for rapid technological change equipped with strong conceptual understanding of core and basic concepts of mechanical engineering
- III. To enable students to develop their knowledge and skills across the range of disciplines.
- IV. To prepare students for soft skills with good communication, ethical values and ability to work in a team
- V. To prepare students to strengthen their knowledge and skills through self-learning abilities throughout their professional career as well as to pursue higher education.

Mechanical Engineering Program Outcomes:

The Mechanical Engineering graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
13. **PSO I:** Apply principles of machine design, manufacturing, thermal engineering and management to identify, formulate and solve real life problems in various fields of engineering
14. **PSO II:** Use modern modeling, simulation techniques and computational tools.
15. **PSO III:** Develop practical solutions for mechanical engineering problems/processes under professional and ethical constraints.