

DEPARTMENT OF MECHANICAL ENGINEERING

Plot No. 46/46A, Sector – 5, Kharghar, Navi Mumbai-410210

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NEWSLETTER VOLUME 21

FROM THE HOD'S DESK



The spirit of improvement is not always a spirit of liberty; for it may aim at forcing improvement on an unwilling people.

Mechanical Engineering is the largest of the engineering disciplines and many mechanical engineers go into manufacturing of computer and electronic products, machinery and transportation equipment's. The department cares for student support, mentoring, tutoring, study skills workshops and career development. Mechanical Engineering students culminate their studies with a year-long capstone project requiring design problem solving, creative thinking, project planning



Intelligence plus character that is the goal of true education.

and teamwork .broad selection of technical encourages students to pursue special interests in design and manufacturing, energy and environmental issues, thermal and fluid sciences materials, dynamics & control and robotics.

VISION

To emerge as a centre of excellence in academics and research in the field of mechanical engineering.

MISSION

To create professionally competent engineers with analytical and research skills for promoting an environment of continuous learning.

PROGRAMME EDUCATIONAL OUTCOMES (PEO)

- To embed a strong foundation of the Mechanical Engineering fundamentals to identify, solve, analyze and design real time engineering problems as professional or entrepreneur.
- To motivate and prepare students for lifelong learning and research to manifest Global competencies
- To equip students with communication, team work and leadership skills to accept challenges in all facets of life ethically.



PROGRAMME OUTCOMES (PO'S)

- Apply the knowledge of Mathematics, Science and Engineering fundamentals to solve complex Electronics and problems and find appropriate solution leading to valid conclusion.
- Design an electronic system or process to meet specified needs with appropriate attention to health, safety, standards, environmental and societal considerations.
- Create, select and apply appropriate techniques, resources, advanced engineering and software tools necessary to analyze and design telecommunication engineering problems.
- Understand the impact of Electronics and telecommunication Engineering solutions on society and environment for sustainable development.
- Understand societal, health, safety, cultural and legal issues and responsibilities relevant to engineering profession.

- Apply professional ethics, telecommunication engineering Problems.
- Investigate complex Electronics and telecommunication engineering accountability and equity in engineering profession.
- Work effectively as a member and leader in multidisciplinary team for a common goal.
- Communicate effectively within a profession and society at large.
- Appropriately incorporate principles of management and finance in one's own work.
- Identify educational needs and engage in lifelong learning in a changing world of technology.

DEPARTMENTAL EVENTS

Event :- Webinar on ‘Careers in IT/Software sector of mechanical engineering.

Date:- 19th June 2020

Event host:- Mr. Amol Patil

This webinar was organized by Mechanical Engineering Students Association(MESA). In this webinar IMr.

Amol Patil sir of Novus-Nexus was the speaker for the webinar, he gave brief information to the students about scope of

IT & software in mechanical engineering.



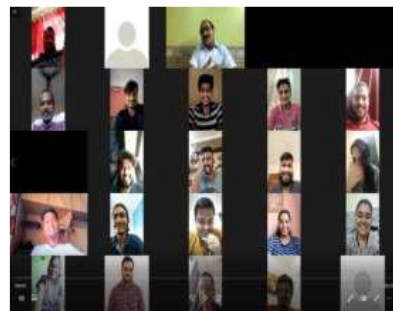
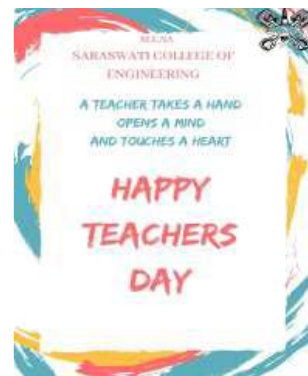
Event: - Celebration of ‘TEACHERS DAY’

Event Host:- Enoch Dmello, Aniket

Dangle, Priyanka Kushwaha, Shivani Gade, Prajwal Wankhede, Shubham Thorat, Bhavin Kale, Kajal Salunkhe , Anup Rajmane, Kartik Birwadkar, Ganesh Kuttikar.

Date:- 5th Sept 2020

The Mechanical Engineering Students Association (MESA) celebrated ‘ Teachers Day’ on 5th September, 2020 from 4:00 pm to 5:00 pm. In this event faculties interacted with students and shared their valuable experience.



Event: Celebration of ‘ENGINEERS DAY’

Event Host:- Aniket Dangle,
Bhavin Kale, Kajal
Salunkhe, Priyanka Panda

Date:- 15th Sept 2020

The members of Mechanical Engineering Students Association (MESA) celebrated engineers day by posting a video on social media giving the information that why do we celebrate Engineers Day and also describing the importance of Engineers in this world.



Event: Conducting a “SHAYARI COMPETITION”.

Event Name:- Shayar ke Alfaaz

Event Host:- Ninad Desai, Rohit Gughe

Date: 18th
Sept 2020

The Mechanical Engineering Students Association revealed the poster of the Shayari Competition on Engineer’s Day. In this event participants were given a topic (Engineering) on which they had to prepare a Shayari & Poem. **Mr. Indrajeet Patil Sir** was the judge for the competition. This event took place on online platform (Zoom).



Event: - Photography Competition

Event Name:- Picturesque

Event Host:- Anup

Rajmane,Aushutosh

Kapadnis , Prasad Pardhi

Date: 3rd October 2020

A photography competitions was organised by Mechanical engineering students association. In this event students

from all departments were allowed to participate. Shadow, micro & abstract were three categories of photography.

This

event was judged by **Mr. Afeef**

Picturewala



Event: Technical quiz competition

Event Name:- Techno Trivia

Event Host:- Bhavin Kale, Shweta

Salve ,Sahil Sonawale

Date: 10th October, 2020.

A technical event was conducted by Mechanical Engineering students association (MESA). This event was based

on testing the technical & general knowledge of the students. This event had

two rounds both were MCQ format and conducted online.



Event: Meme making competition

Event Name:- “Meme War”

Event Host:- Nitesh Thakkur,
Zain

Bambne , Yogesh Jagdale

Date: 17th October 2020

The Mechanical Engineering Students Association (MESA) recently came up with an event which provided the students

to showcase the humor they have. As we think everything becomes a bit more fun

with a pinch of sarcasm and humor, so MESA came up with an event named ‘The

Meme War’. This event was judged by ‘Amhi Memekar’



Event Name:- Navratri Utsav

Event Host- Priyanka
Kushwaha, Sayali Kadam,

Date: 21st & 22nd October 2020

The Mechanical Engineering Students Association (MESA) brought up an event

which gave the students an opportunity to

flaunt their special Navratri outfits in style.



Event: Fashion competition

Priyanka

This event was judged by Ms. **Trushali Waghmare Fadale**, she is the Winner of Mrs. Global India

FACULTY ACHIEVEMENTS

SR NO.	DESIGN NUMBER/PATENT APPLICATION NO.	TITLE	AUTHOR/MEMBERS	DATE OF FILLING
1	202121001389	Multipurpose Seed Sowing Machine	Prof. MB Sorte Prof. Pramod Deshmukh	12/01/2021
2	202021054822	Design and fabrication of advanced mine detecting and neutralizing robot	Prof. Sunil Jankar Prof. MB Sorte	17/12/2020
3	332817-001	Custurd Apple deseeding mach	Dr. Madan Jagtap	5/09/2020
4	202021035420	Aquatic animal friendly ocean cleaning system	Prof. Prasanna Raut	17/08/2020
5	202011005557	Hybrid energy management system using solar wind, Fuel cell sources for remote region	Prof. Paramjit Thakur	7/2/2020
6	201921049384	System and method to manufacture paver blocks from waste plastic bottles	Prof. Prasanna Raut Prof. Amit Mane	2/12/2019
7	201921047449	Robotic Server Inspection cleaning and toxic gas netralization system	Prof. Prasanna Raut	21/11/2019
8	292542	Robot	Prof. Madan Jagtap	6/4/2017
9	297785	Battery operated monowheel	Prof. Madan Jagtap	22/9/2017
10	202021033064	Solar Distiller	Dr. Madan Jagtap	1/08/2020

STUDENTS ACHIEVEMENTS

From our college this students participated in the Railway Internship

Prathamesh Chindarkar
Priyanka Kushwaha
Prathamesh Bakkar
Mohit Bangale

Students learned the focus for this detailed study is provided by the type of solid state signaling and various communication systems currently being deployed throughout mainline railways. Safety and system reliability concerns dominate in this domain. With such motivation, two issues are tackled: the special problem of software quality assurance in these data-driven control systems, and the broader problem of design dependability. In the former case, the analysis is directed towards proving safety properties of the geographic data which encode the control logic for the railway interlocking; the latter examines the fidelity of the communication protocols upon which the distributed control system depends

