



MECHAZINE

THE DEPARTMENTAL NEWSLETTER

MECHANICAL ENGINEERING DEPARTMENT

January-June 2023

L. E. College, Morbi

Vol.5, Issue-2

HIGHLIGHTS:

❖ *Message from Head of Department*

❖ *Departmental Activities*

❖ *Faculty Corner*

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Message from Head of Department

Dear Friends, Colleagues, Students and Alumni:

It is a matter of great pleasure to present before you yet another issue of Newsletter of Mechanical Engineering Department "MECHAZINE", which is an opportunity to summarize the achievements of our students, faculty members and staff members.

The last six months of experience in Mechanical department has been humbling to say the least. The faculty members were granted the design patent; publish the research papers in reputed journals, completed SWAYAM MOOCs with medals and many more. Students of the department have been placed in reputed companies with handsome packages.

The newsletter would not have been possible without supports of all staff members of the department and I am thankful to them. Any constructive suggestion for improving the future issues is most welcomed.

With Regards,

Dr N M Bhatt
Professor and Head,
Mechanical Engineering Department
30th June 2023

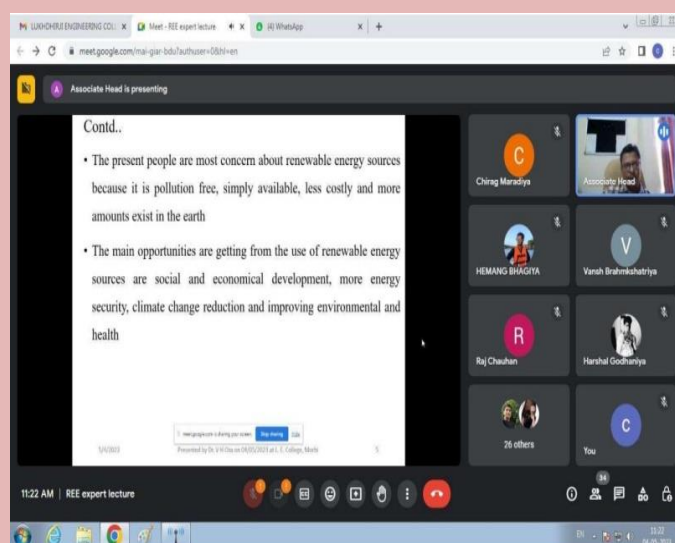
Departmental Activities

❖ *Expert Talk*

The department recently hosted an enlightening expert session that was drowned in promising prospects and

future prospective of renewable energy for the 4th and 6th semester students of Mechanical engineering. The event, which took place on 4th May 2023, featured speaker Dr. V.H. Oza, Associate Professor, Mechanical Engineering Department., Shri Labhubhai Trivedi Institute of Engineering & Technology, Rajkot. The session attracted a diverse audience of students and faculty members eager to gain insights into the rapidly evolving landscape of renewable energy. Event covered clearing all the doubts and aspects regarding type of renewable energy sources, renewable energy sources available in India, rate energy consumption increases in India with industrial development, etc. The expert session undoubtedly left a lasting impact on the attendees, inspiring discussions about potential research collaborations, innovative projects, and career paths in renewable energy. Our expert also expresses his thoughts about future of renewable energy in India. Students got ideas about opportunities in renewable energy engineering in India to build their carrier. Total 30 student felt satisfied and got benefit of this expert session. All the students are also thankful to the coordinator of the session Dr. C.A. Maradiya for providing that much gain in their knowledge. In an era where the transition to clean and sustainable energy sources is imperative, the Mechanical Engineering Department remains committed to fostering awareness and expertise in renewable energy.

Glimpse of the session



Industrial Visits:

❖ ***Jyoti CNC Automation Ltd. Rajkot***

We are excited to share a remarkable experience that a group of our enthusiastic students recently embarked upon an industrial visit to “Jyoti CNC Automation Ltd. Rajkot” and “Center of Excellence, GLIA Metoda, Rajkot” on 18th March 2023. Concepts learned within classrooms found real-world relevance as students connected classroom learning concepts to the reality and profession of precision manufacturing. This experience boosts their passion for engineering and its tangible impact. Highlight of the visit was the interactive sessions with industry experts and engineers. They shared their insights, experiences, and knowledge, shedding light on the practical challenges and solutions in the area of automation.

Our students had the chance to engage in critical discussions and clarify their doubts directly with professionals who are shaping the future of manufacturing. Our sincere thanks also go to our faculty members who meticulously organized and accompanied the students, ensuring the visit was not only educational but also safe and enjoyable. Total 33 students participated in the visit along with our experienced faculty guides Dr. M. B Vaghela and Dr. A. N. Dave. As we continue to strive for excellence, we eagerly anticipate more such enriching experiences that shape the future leaders of our field.

The industrial visit to Jyoti CNC Automation was a step towards fostering a stronger connection between academia and industry.



❖ ***Falcon Pumps Pvt. Ltd., Rajkot***

An illuminating industrial visit to Falcon Pumps Pvt. Ltd., Vavadi, Rajkot, Gujarat was organized by the department for 4th semester students on 23rd April 2023. This visit opened the doors to a realm of innovation and practical learning, offering our students a firsthand experience of the challenges of the industrial portrait. Within the campus of Falcon Pumps

Pvt. Ltd., our students were exposed to an array of Fluid Mechanics & Hydraulic Machines technologies that form the backbone of the modern manufacturing world. Their specialty in manufacturing of submerging bore well pump, open well pump, self-priming and centrifugal mono-block pumps, solar pumps etc. was very beneficial for students in informative as well as practical way. One of the most enriching highlights of the visit was the opportunity to interact with industry workers and professionals. Two persons from industry briefly explained about each and every process. Through engaging discussions and informative sessions, the students gained understanding of the challenges and goals that mark the journey of a successful industrial enterprise. Department expresses sincere thanks to the faculty members who orchestrated the visit, ensuring its smooth execution and the safety of all students. Total 21 students participated in the visit along with our experienced faculty guides Prof. H.D. Patel and Prof. J.H Solanki. The industrial visit to Falcon Pumps Pvt. Ltd. was a pivotal step in cultivating a symbiotic relationship between academia and industry.



Faculty Corner

❖ ***Faculty Achievements***

1. Patent Granted:

A design of Active Solar Still with Cooling Chamber was granted to Dr. N. M. Bhatt and Mr. Mihir Mistry by Design office Kolkata under Controller of Patent, Designs and Trademarks.

2. NPTEL Star:

Prof. R. N. Makadia was recognized as NPTEL star for the course “Yoga and Positive Psychology for Managing Career and Life”.

❖ ***Expert Talk Delivered***

Dr. N. M. Bhatt delivered an expert lecture on “Development of Energy Efficient, Low Cost Solar Air Heaters for Medium Temperature Heat Delivery” during online STTP on “Research Potential in the Field of Solar Energy” organized by SFIT Borivali (W), Mumbai on 2/01/2023.

❖ Faculty Announcement

1. Dr. N. M. Bhatt is appointed as member of the committee constituted by Directorate of Technical Education, Gujarat State to finalize the NITTTR training calendar for the year 2023-24.
2. Dr. N. M. Bhatt is appointed as member of the committee constituted by Directorate of Technical Education, Gujarat State for purchase of ANSYS software.
3. Dr. N. M. Bhatt is appointed as member of the committee constituted by Directorate of Technical Education, Gujarat State to decide the faculty position and infrastructure as per AICTE and branch equivalency and course wise appropriate branch.

❖ Faculty Training

1. Prof. R. N. Makadia, Dr. A. N. Dave and Prof. A. B. Khant successfully completed 8 weeks NPTEL-AICTE faculty development program on “Yoga and Positive Psychology for Managing Career and Life” funded by the MoE, Govt. of India through MOOCs Mode during Feb–April 2023
2. Dr. C. A. Maradiya successfully completed one week faculty development program on “Light Weight Material for Automotive Application” at SVNIT Surat during 9th – 13th January 2023.
3. Prof. J. M. Pujara successfully completed 8 weeks NPTEL-AICTE faculty development program on “Product design & Manufacturing” funded by the MoE, Govt. of India through MOOCs Mode during Feb–April 2023.

❖ Student Corner

❖ Extra-Curricular Activities

- Divyesh G Hadiyal successfully completed one day training in the course “First Aid Training” offered by JAS Associates, Vadodara.
- Divyesh G Hadiyal participated in drawing competition organized at Lukhdhirji Engineering College, Morbi and secured 1st Rank.
- Anurag S Zala and Harsh K Joshi participated in Grand Finale of Azadi ka Amrit Mahotsav Hackathon 2022 during 10th and 11th February 2023 organised by SSIP and GKM at CVM university.



❖ Student Placements

Sr. No.	Student Name	Company Name
1	Vivek Hadiya (200310119502)	Nirma Limited, Bhavnagar
2	Aditya Joshi (190310119026)	Nirma Limited, Bhavnagar
3	Jayrajsinh Jadeja (190310119025)	Nirma Limited, Porbandar
4	Shashank Sharma (190310119064)	Nirma Limited, Bhavnagar
5	Krishnapalsinh Chavda (200310119506)	Reliance Industries Limited, Jamnagar
6	Vinay Giri (200310119505)	Ktex Nonwovens Private Limited, Jamnagar
7	Mahipal Jadeja (190310119023)	Perficio Testing and Research Centre, Vadodara
8	Shubham Bharatbhai Chandegara (190310119006)	Perficio Testing and Research Centre, Vadodara
9	Jadeja Shailrajsinh Harpalsinh (200310106532)	Coromandel Eservices Limited, Vadodara

* Vision of the Department *

To deliver quality engineering education for Mechanical Engineers with Professional competency, Human values and Acceptability in the society.

* Mission of the Department *

1. To nurture engineers with basic and advance mechanical engineering concepts.
2. To impart Techno-Managerial skill in students to meet global engineering challenges.
3. To create ethical engineers who can contribute for sustainable development of society

❖ EDITORS:

1. Prof. Amisha D. Vadaliya
2. Prof. Reena N. Makadia

❖ STUDENTS COORDINATORS:

1. Jayrajsinh Jadeja (190310119025)
2. Chirag Goyal (200310119051)
3. Anurag Zala (200310119040)