



MECHAZINE

THE DEPARTMENTAL NEWSLETTER

MECHANICAL ENGINEERING DEPARTMENT



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L. E. College, Morbi

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HIGHLIGHTS:

- ❖ *Departmental Activities*
- ❖ *Industrial Visit*
- ❖ *Faculty Corner*
- ❖ *Student Corner*

Departmental Activities

❖ *Expert Sessions*

Mechanical Engineering Department organized an expert talk on "Importance of Mechanical Engineering in the Real World," conducted by Mr. Abhi Panseriya, Techno-Commercial Executive at Mechman Solutions, Vadodara. The session was organized on 26th February 2024 for 6th and 4th semester students. Mr. Panseriya elaborated on various modules of Fusion 360 and discussed the scope of working with Fusion 360 in the industry as a mechanical engineer. The students benefited from understanding the applications of Fusion 360 in industrial product design, analysis, and manufacturing, as well as the broader importance of mechanical engineering in real-world contexts. A total of 33 students attended and benefited from this expert session.

Glimpse of the session:



❖ *Farewell Ceremony*

Mechanical Engineering Department bid farewell to Mr. Nathabhai Motibhai Chavda on 29th February 2024, who retired from his position as Hamal. The event was attended by Dr. R. K. Mewada, Principal L. E. College, Morbi, Dr N M Bhatt, Head of the Mechanical Department, along with other staff members. The ceremony was a heartfelt occasion, celebrating Mr. Chavda's years of dedicated service and contribution to the department. The atmosphere was filled with warmth and gratitude as colleagues and staff gathered to bid him a fond farewell.

Glimpse of the ceremony:



❖ *Donation by Alumni*

On 2nd March 2024, the Mechanical Engineering Department of L. E. College Morbi received a generous donation of Rs. 12,500 from Mr. Kaushik Adhvaryu, an alumnus from the 1981 Batch. Mr. Adhvaryu's contribution is greatly appreciated and will support the department's ongoing initiatives and projects.



❖ *SSIP 2.0 Patents Granted*

The Mechanical Engineering Department has made significant contributions under the SSIP 2.0 program. Below is a summary of the patents granted:

Patent Name	Patent Application/Design No.	Date of Patent Grant	Patentee(s)
A Smart Apparatus for Spray Pesticide and Method Thereof	201921039884	26/02/2024	Dr. M B Vaghela
Stick Mouse	406758-001	23/04/2024	1. Anurag Sureshbhai Zala 2. Dr. M B Vaghela
Thumb Traced Mouse	406759-001	23/04/2024	1. Anurag Sureshbhai Zala 2. Dr. M B Vaghela

These patents highlight the innovative spirit of the department, demonstrating a commitment to developing new designs and technologies that advance the field of mechanical engineering.

+ *Industrial Visit:*

Mechanical Engineering Department organized an industrial visit to Jyoti CNC Automation Ltd., Rajkot on 2nd March 2024, for the 4th and 6th semesters students. The visit aimed to provide practical exposure

to computer-aided design (CAD), computer-aided manufacturing (CAM), and various manufacturing processes. During the visit, students explored advanced sections of the company, including: Machine Shop, Assembly Line for CNC and VMC Machines, Linear Machines, 4 and 5-Axis Machines, Fabrication Shop, Welding Shop, Painting Shop, Semi-Automation Foundry. Two industry representatives guided the group, providing insights into the processes and explaining the implementation of 5S methodologies and advanced tools used for live machine condition monitoring and customer support. This visit offered students a valuable opportunity to see real-world applications of their classroom learning and understand the latest trends in manufacturing. A total of 24 students participated, accompanied by faculty members Dr. A N Dave and Dr. M B Vaghela. This hands-on experience enriched their understanding of the manufacturing industry and inspired them to explore further in their field.

Glimpse of the visit:



+ *Faculty Corner*

❖ *Faculty Contributions*

1. Dr N M Bhatt has published a research paper titled 'Exploring stepped solar still developments with a case study for potable water provision in salt farming regions' in the journal of Sustainable Energy Technologies and Assessments (IF: 8.0). The paper is available online from 21 February 2024.
2. Dr N M Bhatt has published a research paper titled 'Parametric Investigation of Single Basin Single

Slope Solar Distiller by Design Modification: An Experimental Approach' in the proceeding of international conference on Green Technology for Sustainable Development organized by Department of Chemical Engineering, Dharmsinh Desai University, Nadiad.

3. Dr N M Bhatt has been granted an Indian patent for his invention titled 'Evacuated Tube Collector Powered Active Solar Still with Fluid Chamber' by Indian patent office on 15/03/2024.
4. Dr N M Bhatt is nominated as an Associate Dean of Degree Engineering of Rajkot zone for a period of three years from 11/06/2024 by honorable Vice Chancellor, GTU.
5. Dr N M Bhatt is appointed as a representative of honorable Vice chancellor, GTU in the Governing body of Ahmedabad Institute of Technology, Ahmedabad.
6. Dr N M Bhatt is appointed as an expert to conduct Research Methodology classes for the Batch 2023 of PhD scholar of Engineering enrolled with GTU.

❖ Faculty Training

1. Prof. A. D. Vadaliya successfully completed one-week NPTEL-AICTE faculty development program on "Quality Control & Improvement with Minitab" funded by the MoE, Govt. of India through MOOCs Mode during Feb - April 2024.
2. Prof. R. N. Makadia successfully completed one-week NPTEL-AICTE faculty development program on "Quality Control & Improvement with Minitab" funded by the MoE, Govt. of India through MOOCs Mode during Feb - April 2024.
3. Prof. H. D. Patel successfully completed two-week NPTEL-AICTE faculty development program on "Machinery Fault Diagnosis & Signal Processing" funded by the MoE, Govt. of India through MOOCs Mode during Jan – April 2024.
4. Prof. H. D. Patel successfully completed one week training on "From Concept to Manuscript: Deep Dive into Research Writing Techniques" at CTE, Gandhinagar during 24th to 29th June 2024.
5. Dr. J. M. Pujara successfully completed one week training on "Project based learning" at RCTI Ahmedabad during 5th to 9th February 2024.
6. Prof. J. M. Pujara successfully completed two-week NPTEL-AICTE faculty development program on "Computer Integrated Manufacturing" funded by the MoE, Govt. of India through MOOCs Mode during Feb - April 2024.

Student Corner

❖ Celebration on Republic Day

L. E. College, Morbi, celebrated the 75th Republic Day of India with great enthusiasm on 26th January 2024. The event was marked by a grand NCC parade and various ceremonial activities. Ayush Kaneria (220310119004), a Mechanical Engineering student

played a key role as the anchor for the NCC parade. As the anchor, Ayush guided the event seamlessly, introducing segments, keeping the audience engaged, and ensuring a smooth flow of the program. Ayush's outstanding performance as the anchor was highly appreciated by all present authorities on campus. Congratulations to Ayush Kaneria for representing the Mechanical Engineering Department with such professionalism and skill.



❖ Sports Event Organized by NCC Group

The college NCC group organized a sports event on 26th February 2024 at the college cricket ground, which saw enthusiastic participation from students of the Mechanical Engineering Department. The event featured various sports activities, including rope climbing, javelin throw, running, shot put, and tug of war. Students from the department, including Asodiya Hiten, Bhatti Hemal, Tank Dhaval, and many others, showcased their athletic skills and participated with great zeal. Their performances were outstanding, securing several top positions and winning impressive awards. The Mechanical Engineering Department congratulates all the participants for their remarkable achievements and their spirited representation of the department.



❖ **Student Placements and Higher Study**

Following students got placed in various industries with attractive salary packages.

Sr. No.	Student Name	Company Name & Location
1	Chaudhari Pravikumar Pajabhai (190310119007)	HPCL, Gandhinagar
2	Rajgor Kartik Bakuleshbhai (190310119058)	Rudra Engineers, Ahmedabad
3	Toyta Maheshbhai Sangrambhai (190310119074)	Info Iconic, Rajkot

Following students got enrolled in German Universities for higher studies.

Sr. No.	Student Name	University Name
1	Champaneri Sanket Rakeshbhai (190310119005)	Honschule Schanmalkaden, Germany
2	Gandecha Kalpit Rajeshbhai (190310119019)	OVGU, Magdeburg - Germany
3	Raval Param Sanjaybhai (190310119063)	Otto-von-Guericke-University

❖ **13th LENCO Gold Medal Function**

The 13th LENCO Gold Medal Function was a momentous occasion that celebrated the outstanding achievements of students from L. E. College, Morbi, and spanning three consecutive pass-out batches: 2021, 2022, and 2023. This grand event was particularly special as it marked a return after a two-year hiatus due to the coronavirus pandemic, which had previously made it impossible to hold such gatherings.

The function recognized and honored the exemplary performance of students across various categories, highlighting their dedication, hard work, and academic excellence. The following students from the Mechanical Engineering Department were awarded gold medals for their exceptional achievements:

Year of Pass Out	Gold Medal Category	Enrollment Number	Student Name
2021	B.E. Mechanical Branch Topper	180313119004	BOHRA HITESH PRAMODBHAI
	B.E. Mechanical (Machine Design)	170310119032	MADAAN RAHUL HARISH
2022	B.E. Mechanical Branch Topper	180310119039	PANCHOLI SATYEN BHARATKUMAR
	B.E. Mechanical (Machine Design)	180310119039	PANCHOLI SATYEN BHARATKUMAR
2023	B.E. Mechanical Branch Topper	190310119025	JAYRAJSINH AJITSINH JADEJA
	B.E. Mechanical (Machine Design)	190310119025	JAYRAJSINH AJITSINH JADEJA
	B. E. Overall Performance	190310119025	JAYRAJSINH AJITSINH JADEJA

These students have not only excelled in their academic journey but have also set a benchmark of excellence for their peers. The Mechanical Engineering Department is proud of their achievements and wishes them continued success in their future endeavors. This Gold Medal Function is a testament to the hard work and dedication of the students and the faculty who guide them. Congratulations to all the awardees!

Glimpse of the Function:



❖ **Faculty Editors:**

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

❖ **Students Coordinator:**

1. Sujal Vyas (230313119015)
2. Ayush Kaneria (220310119004)