



MECHAZINE

THE DEPARTMENTAL NEWSLETTER



MECHANICAL ENGINEERING DEPARTMENT

July-December 2022

L. E. College, Morbi

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HIGHLIGHTS:

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

Departmental Activities

❖ **NBA Accreditation**

NBA (National Board of Accreditation) is an independent autonomous body which grants accreditation to the engineering programmes across the whole country. The programmes accredited by NBA ensure an extraordinary achievement in accomplishing the process of institutional missions and objectives, organization and governance, infrastructure facilities, quality of teaching and learning, curriculum design and review, support services (library, laboratory, instrumentation, computer facilities, etc.)

The Mechanical Engineering Department is feeling proud and pleased to announce that the UG program of the Mechanical Engineering of Lukhdhirji Engineering College, Morbi is accredited by the National Board of Accreditation (NBA) for three years i.e., up to 30/06/2025. The NBA team visited the department from 2nd to 4th September 2022 and the program was awarded 677 marks out of 1000.

Under the leadership of current Head of Department, Dr N M Bhatt and former Head Dr. P. B. Tailor, and with continuous guidance of NBA Coordinator Prof. R. N. Chovatia and Prof. C. A. Maradiya, all the teaching and non-teaching staff members of Mechanical Engineering and other Departments put their immense efforts for the quality of teaching-learning process, extracurricular activities, student services and counselling, research and development, industrial engagement and placements.

From the top administration, current and former principals Dr. B. N. Suthar and Dr. S. N. Pandya along with Central NBA coordinator Dr. B. Y. Vyas and Dr. V. B. Patel provided resounding support and guidance for the preparation for NBA.

However, this achievement is incomplete without mentioning the efforts and support of students and alumni of the department. Especially the Department is very thankful to the Prof. B. B. Agola (Former Head of the Department and alumnus) for his all the efforts and support.

❖ **Glimpse of the visit:**





❖ SSIP Activity

A seminar was organized on SSIP 2.0: Sensitization for Morbi Region students under Student Start up Research and Innovation Festival (SSRIF 22) and Azadi ka Amrut Mahotsav on 14th October 2022 in the main seminar hall. Online streaming was also arranged in departmental seminar halls of the LEC, Morbi. Mr. Jayrajsinh Jadeja, Councillor and Vice President of Morbi Nagarpalika and Mr. Kalpesh Chhaya, Head of Customer Care at Simpolo Vitrified Pvt. Ltd., Morbi were present as Chief guest. Dr. R K Mevada briefed about the objective of the program and highlighted the activities of SSIP 1.0. The Chief guest Mr. Jayrajsinh Jadeja elaborated the vision of the Gujarat Government and its various scheme related to education. Mr. Kalpesh Chhaya motivated the students to become an entrepreneur and discussed about current requirement of industry. Eight students were appreciated for filing the utility patent during SSIP.



Prof. M. B. Vaghela elaborated on start-up concept, innovation and key performance and institute journey during SSIP 1.0. He also informed the attendees about how school/college students can benefit from the SSIP 2.0. Total 444 students and 17 faculty members attended this seminar.



+ Industrial Visits:

1. Mechanical Department arranged an industry visit to “Ravi Metal Treatment, Rajkot” for the 3rd semester students on 18th November 2022 to understand the concept of various heat treatment processes and metallurgical aspects of heat treatment. The students observed and learned various processes like hardening, tempering, carburizing, carbon nitriding, working of various furnaces and various quenching methods along with metallurgical laboratory equipment. Students also observed hardness testing of material. Total 30 students participated in this industrial visit with faculty coordinator Prof. H. N. Jani and Prof. J. M. Pujara.



2. Mechanical Department organized an industry visit at “Amtech Technocast Pvt. Ltd. Pipaliya, Rajkot” for the 5th semester students on 19th November 2022 to understand the concept of casting and details practical exposure of the investment casting. The students visited the various sections of company like, wax pattern making, coating on wax pattern, heating and dryer dept., furnace, material characterization, quality control, machining and finishing, packaging etc. The technical guide of the industry elaborated all the processes. Student became aware about quality assurance and importance of it. Total 14 students participated in this industrial visit. Prof. M. B. Vaghela and Prof. J. H. Solanki coordinated the visit.



❖ Voters' Pledge

Legislative assembly election was held in Gujarat from 1st December to 5th December in two phases. Keeping in mind that voting is very fundamental duty of every citizen, a pledge was taken by all the students of department so that they will be aware themselves and also aware their fellows.



+ Faculty Corner

❖ Faculty Announcement

Dr N M Bhatt is appointed as Chairman of a committee constituted by DTE for preparing common lab manuals, assignments and tutorials.

❖ Faculty Training

Prof. Anjali N. Dave, successfully completed 12 week July-Oct 2022 NPTEL-AICTE faculty development program on "Human Resource Development" funded by the MoE, Govt. of India through MOOCs Mode.

❖ Paper Publication

Dr N M Bhatt et al. published a review paper "Performance improvement and advancement studies of mixed-mode solar thermal dryers: a review." In an international journal *Environmental Science and Pollution Research*.

+ Student Corner

❖ Extracurricular Activity

1. Vadaviya Deep Harshadbhai (190310119076) 5th semester student, participated in Cadengers event held at Government Engineering College, Rajkot and secured 3rd position during GTU Tech-fest 2022.



2. Cdt. Saurav Mishra (200310119023) & Cdt. Devraj Sorani (200310119043), 5th semester students of Mechanical Dept. attended a NCC National level Camp where they learned about various battle strategies of Shri Chhatrapati Shivaji Maharaj.



❖ Student Placements

Sr. No.	StudentName	Company Name&Location
1	Sayaja Dhananjay Mukeshbhai (190313119009)	Institute for Plasma Research, Gandhinagar
2	Mehta Dhruv Sureshbhai (180310119032)	Assa Abloy India, Jamnagar
3	KrishnapalSinh Chavda (200310119506)	Reliance Industries Limited

❖ Creative Skills



Madhudia Priyanka (7th Semester 190310119039)

❖ EDITOR:
Prof. Amisha Khant

❖ STUDENTS COORDINATOR:

1. Jayrajsinh Jadeja (8th Sem)
2. Chirag Goyal (6th Sem)
3. Anurag Zala (6th Sem)