



MECHAZINE

THE DEPARTMENTAL NEWSLETTER



MECHANICAL ENGINEERING DEPARTMENT

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L. E. College, Morbi

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HIGHLIGHTS:

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- ❖ *Student Orientation Program*
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Heading Towards Excellence....

The National Board of Accreditation (NBA), India was initially established by the AICTE in the year 1994, in order to assess the qualitative competence of the programs offered by educational institution from diploma level to post-graduate level in engineering and technology, management, pharmacy, architecture and related disciplines, which are approved by AICTE. Later in 2010 it exists as independent autonomous body with the objectives of assurance of quality and relevance to technical education, especially of the programs in professional and technical disciplines, like Engineering and Technology et al.

Our department has applied for accreditation in NBA in September 2021 to accredit the Mechanical

Engineering Programs. Once the department/program is accredited by NBA; Students seeking admission to premier universities in India and abroad for higher studies will be benefited, allow graduates to get good jobs in India and abroad, and students and teachers will be able to obtain financial assistance from universities and government agencies for research projects.

FY Student Orientation Program

"An online orientation program was organized by Mechanical Department for 1st year students – 2021 Batch on MS Teams platform on 28/09/2021. Total 40 students have attended the program. The students were welcomed by Prof. K. K. Dave and the program was coordinated by Prof. J. H. Solanki and Prof. M. B. Vaghela. Students were informed about department as well as institute activities and how student can go through the process.



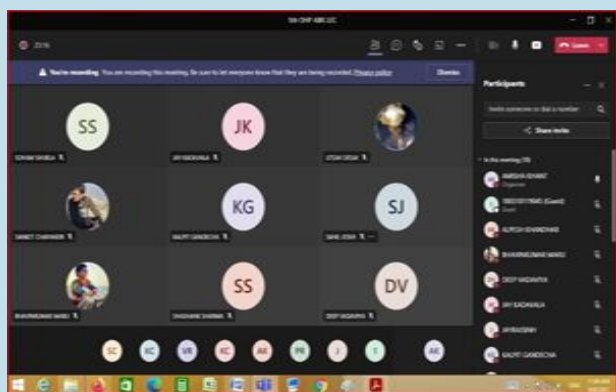
FY Student Orientation Program

Research Grant from Directorate of Technical Education

Mechanical Engineering Department L. E. College had received a research grant of 2 Lakhs rupees from Directorate of Technical Education, Gandhinagar for Investigation on "**Hardenability for Low And High Alloy Steels**" led by the principal investigator Dr. V.B. Patel.

Online Awareness Program- Swachchhata Pakhwada

As a part of "Swachchhata Pakhwada", staff and students of Mechanical Engineering Department, L.E. College, had attended an online awareness program by watching swachchhata videos. The program was organized at conference hall of Mechanical department on 8th September 2021, following SOP guidelines for Covid 19. For online attendees MS team platform was used by Prof. I B Shah, Prof. A B Khant and Prof. M B Vaghela. Total 107 participants including staffs watched the videos sincerely.



Online Awareness Program-Swachchhata Pakhwada

Swachchhata Shapath Program

As a part of "Swachchhata Pakhwada", staff and students of Mechanical Engineering Department L. E. College, took Swachchhata shapath on 3rd September 2021, following SOP guidelines for Covid 19. It was arranged at 11 a.m. on MS team platform for online attendee. For offline attendee it was organized at conference hall of Mechanical Department. Total 55 participants including staffs took "Swachchhata Shapath" sincerely.



Swachchhata Shapath Program

Organ Donation Pledge

In order to increase awareness among the people about organ donation, a program of taking 10 lakhs pledges has been launched by the Government of Gujarat. Efforts are being made by the Organ Donation Charitable Trust to attract a large number of people including employees / students from various government and private universities/colleges of the state as well as institutions/ departments. Students and Staff members of Mechanical Engineering Department took the pledge on 08/12/2022.



Organ Donation Pledge

Azadi Ka Amrit Mahotsav- Vadnagar Lok Sanskrit Prachar Prasar

Mechanical Engineering Department had organized an easy and story writing competition under an initiative of Azadi Ka Amrit Mahotsav-Vadnagar Lok Sanskrit Prachar Prasar on 10th December 2021. The competition was coordinated by Prof. A. N. Dave, a departmental COC coordinator. The students have enthusiastically participated in the competition.



Azadi Ka Amrit Mahotsav- Vadnagar

Online Expert Sessions

1. Mechanical Engineering Department had arranged an expert session titled "Nano Structured Hard Coating for Tribological Applications" for 7th semester students on 23rd September 2021. The

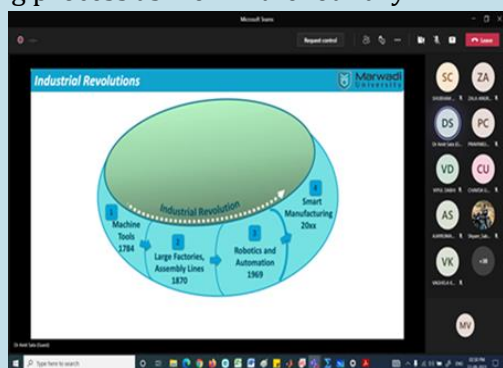
session was conducted by Dr. H N Shah, Director, Gandhinagar Institute of Technology, Gandhinagar.



Online Expert Session on Nano Structured Hard Coating

Around 67 students had attended this online expert session. Prof. M B Vaghela has coordinated the online expert session.

2. An expert session on “**IoT Enabled Metal Casting**” was delivered by Dr. A V Sata, Professor, Marwadi University, Rajkot for 5th semester students on 22nd September 2021. He has briefly elaborated the journey of 1st industrial revolution to 4th industrial revolution and provided the information about how IoT can play the major role in casting process as well in the foundry.



Online Expert Session on IoT Enabled Metal Casting

Around 75 students had attended the online expert session. Prof. M B Vaghela has coordinated the online expert session.

Industry Internship

GTU have introduced an Internship/ Project (3181901) course for the 8th semester students from the academic year 2021-22, to get an exposure to the practical aspects of the mechanical engineering and to prepare students for the industries. It gives the students a chance to have live industry interaction to create competent professionals for the industry that can apply the technical knowledge in real industrial situations, understand responsibilities and ethics of the engineers along with social, economic and administrative considerations to strengthen

industry-institute linkage and increase employability of the students.

Department is pleasure to announce that 100% students of 8th semester mechanical have opted for Industrial Internship in accordance with above benefits. Some of the students got internships in well-known companies like Jyoti CNC Automation Ltd., Mahindra & Mahindra Tractor, Kirloskar Oil Engines Limited, Rajoo Engineers Ltd., Varmora Granito Pvt. Ltd., Wanakbori Thermal Power Station Kheda etc.

Faculty Corner

Faculty Training

Following faculty members have successfully attended trainings/MOOC courses/development programs:

- Prof. K. K. Dave has attended a one week STTP on “Training the Trainer Program on – Automotive Systems & Auto Tronics”, organized by iACE– Gandhinagar during 25/10/2021 to 29/10/2021.
- Prof. R. N. Makadia has attended an online two weeks FDP on “Induction Phase –I ” by NITTTR Bhopal during 02/08/2021 to 13/08/2021.
- Prof. M.B. Vaghela has attended an online two weeks FDP on “Induction Phase-II”, by NITTTR Bhopal during 26/07/2021 to 08/08/2021.
- Prof. J. M. Pujara has attended an online one week FDP on “Innovative Teaching Techniques for Mechanical Engineering”, organized by NITTTR Bhopal during 06/07/2021 to 12/07/2021.
- Prof. J. M. Pujara has successfully completed an online MOOC course on “Toyota Production System”, organized by NPTEL Swayam during 23/08/2021 to 15/10/2021.
- Prof. H. D. Patel has attended an online one week FDP on “Industry 4.0 and Manufacturing Factory of Future”, organized by Production Engineering Department, LEC Morbi during 05/07/2021 to 09/07/2021.
- Prof. R. C. Ghanghas has successfully completed an online MOOC course on “Accreditation of Undergraduate Engineering Programme”, organized by NPTEL Swayam during 30/07/2021 to 01/10/2021.

Paper Publication

- Prof. M. B. Vaghela, published a paper titled “Numerical investigation of bi-material interfacial crack with interaction of voids and inclusions using XFEM”, in Journal of the

❖ Faculty Achievement

- Prof. V. B Patel has received a grant of 2 Lakhs rupees as principal investigator for the title "Investigation On Hardenability For Low And High Alloy Steels" for the research promotion under Technical Education – STEM on 10th December 2021.

❖ Student Corner

❖ Placements

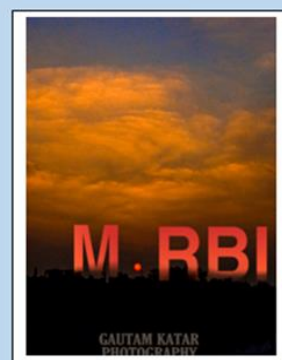
The Mechanical Engineering Department congratulates to the following students and wishes them great career for getting job.

Sr. No.	Student Name	Company Name & Location
1	Nakum Jay Dhirajlal (170310119037)	Reliance, Jamnagar
2	Sabhani Darshan B. (180313119017)	Sathway Associates LLP, Rajkot
3	Nanda Kishan M. (180313119013)	Prism Johnson Limited, Morbi
4	Roshiya D Naranbhai (170310119048)	TATA Chemicals Limited, Mithapur
5	Rathod Mayur P (180313119016)	Aarti Industries Limited, Baroda
6	Bharadva Krupal A. (180313119003)	Aarti Industries Limited, Baroda

❖ Extracurricular Activity

- Chaudhary Pravinkumar, 6th semester student, participated in easy writing competition and ranked 1st during celebration of Azadi Ka Amrit Mahotsav- Vadnagar Lok Sanskrit Prachar Prasara.
- Rana Loukrakpam, 6th semester student, participated in story writing competition and ranked 1st during celebration of Azadi Ka Amrit Mahotsav- Vadnagar Lok Sanskrit Prachar Prasara.

❖ Creative Skills



MECHANICAL ENGINEERING DEPARTMENT

❖ 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

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

EDITORS:

- Prof. Amisha B. Khant
- Prof. Renu C. Ghanghas

STUDENTS COORDINATOR:

- Jayrajsinh Jadeja (6th SEM)