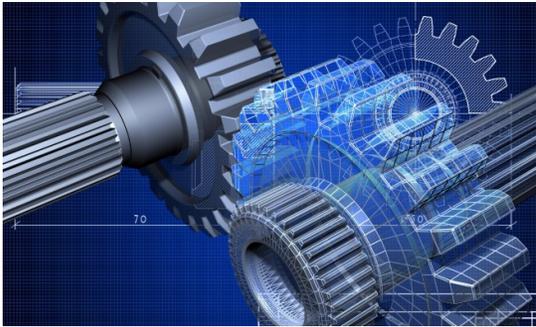


MECHVISION

January - June 2023

Mechanical Engineering Department

L. D. College of Engineering



Advisor:

Dr. V. B. Patel

Editor:

Dr. K. G. Dave

Committee Members:

Prof. G. N. Sutaria

Prof. A. G. Momin

Dr. M. D. Chaudhari

INDEX

1	Message from Principal	3
2	Message from Head of the Department	4
3	Vision and Mission of the Department	5
4	Mechanical Engineering Department - at a Glance	5
5	Faculty and Student Achievements	6
6	Research and Development Activities	11
7	Departmental Activities	12
8	COE Welding	21
9	Student Placement	22
10	Creative Corner	25

Mechvision published on 15 August, 2023 (INDEPENDENCE DAY Celebration)

CONGRATULATIONS



On behalf of Mechanical Engineering Department we would like to Congratulate to Prof. (Dr.) Rajul K. Gajjar, Principal, L.D.College of Engineering for the appointment as a Vice Chancellor – Gujarat Technological University, Ahmedabad. Gujarat

Dr. Rajul K. Gajjar
VC, G.T.U

CONGRATULATIONS

Congratulations to Major Dr. Chaitanya. S. Sanghvi, Professor & Head, Applied Mechanics Department for the appointment as a I/C Principal of L. D. College of Engineering, Ahmedabad, Gujarat.



Major Dr. C. S. Sanghvi
I/C Principal, LDCE

1. Message from Principal



Dear Students and Faculty Members,

Continuing with the everlasting refreshing saga, LD is rejuvenated with a number of unforgettable events and stalwart achievements. Much awaited event, Global Alumni Convention, was celebrated with ardor. Alumni of LDCE participated in huge numbers, online and offline, from all across the globe. The event was inaugurated on 6th January 2023 in the august presence of Hon. Chief Minister of Gujarat, Shri Bhupendrabhai Patel, and other government dignitaries with the star Alumni of LDCE. The alumni expressed their desire to support LDCE achieve its Centennial vision and appealed to the Government to extend its support. Hon. CM assured a strong support to the vision of LDCE at 100. Recently our students participated in Short film festival on “Impact of Climate Changes on Water and Agriculture” organized by Nirubhai Desai- AMA Centre for Climate Management. They prepared a very impactful, thought provoking short film on the given topic and won the First Prize in the competition. It is a pleasure to share that Computer Engineering and Rubber Technology Departments have been accredited by NBA for three years. We also celebrated Sahitya Sarita from 24th to 26th March 2023 that received a massive response from students and the public. Team Robocon has won Visvesvaraya Design Award” for the Best Design and stood 4th all over India. All departments have organized annual project exhibition titled KAIZEN 2023 to demonstrate their internship and research work to society and other students.

Mechanical Department has been frontrunner in cultivating the culture of innovation through the use of the state-of-the-art facilities at Centre of Excellence, which can be easily be seen through the setup of Center of Excellence in collaboration with Blue Star India Ltd. We congratulate to the department for its achievements and hope the forward march continues.

Dr. R. K. Gajjar

30th June 2023

2. Message from Head of the 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 “MECHVISION”. Department is indebted to our respected Principal, who gave this opportunity to summarize the achievements of our students, faculty members and staff members.

I feel very proud to write that Mechanical Engineering department is spearheading towards upgrading the knowledge base. The proof of the pudding can be seen through consistent publication track record and expert lectures that our faculty members conduct in various institutes around Gujarat. The department truly embraces the saying, “Knowledge is useless without consistent applications”. Department has been a frontrunner in applying the knowledge to foster innovative practices and creative designing. This has lead to setup of state of art facilities like HVAC –Hands on training centre in collaboration with BLUE STAR India Ltd. The students and faculty members have published numerous publications and have won several prizes across different competitions like ROBOCON and ROBOFEST 3.0. I feel pride in announcing that 5 teams under the guidance of Mechanical Department faculty have won cash prize of 50,000 INR each in the categories of Submarine and Underwater Robot, Two Wheeled Self Balancing Robot and Others in national level competition, ROBOFEST 3.0.

On behalf of department, I am appreciating and representing gratitude towards Alumni for the contributions achieved to the department for the overall development of the students.

The newsletter would not have been possible without supports of all teaching and supporting 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. V. B. Patel
Professor and Head,
Mechanical Engineering Department.

30th June 2023

3. Vision and Mission of the Department

Vision

To prepare self-driven, environmentally-friendly, self-esteemed, inventive and oriented Mechanical Engineers with virtuous knowledge, proper analytical perceptive and good communication skills.

Mission

To develop industry oriented Mechanical Engineering graduates to accept the challenges of society by,

- (1) Teaching Mechanical Engineering knowledge through highly qualified and trained faculty in encouraging environment.
- (2) Creating awareness about the needs of industries and society through alumni and Industry-Institute interactions.
- (3) Encouraging them to think inventively and introduce them to various research activities through advanced project works related to Mechanical Engineering.
- (4) Supporting them to prepare in all aspects like communication, entrepreneurship and interpersonal skills.

4. Mechanical Engineering Department - at a Glance

Name of Course	Type	Period (Years)	Intake	Year of Starting
Mechanical Engineering	UG	4	120	1948
Computer Aided Design & Manufacturing	PG	2	18	1996
Cryogenic Engineering	PG	2	15	1990
Internal Combustion Engines & Automobile	PG	2	18	2003
Mechanical Engineering	PDDC	4	120	1968

Faculty members of Mechanical Engineering Department

<i>Professor</i>	
Dr. V. B. Patel	Dr. R. G. Kapadia
Dr. K. G. Dave	
<i>Associate Professor</i>	
Dr. N V Bora	Dr. P. R. Rathod
Prof. M. A. Lohia	Prof. M. M. Makwana
Dr. R. J. Jani	Prof. R. O. Paliwal
Dr. S. S. Pathan	Prof. M Y Patil
Prof. S. A. Saraswat	Dr. A. V. Patel
<i>Assistant Professor</i>	
Prof. H. P. Patel	Prof. P. C. Sheth
Dr. S. R. Pandya	Dr. B. K. Patel
Prof. M. K. Vyas	Prof. P. V. Jotaniya
Prof. H. M. Ravat	Dr. V. D. Sonara
Prof. S. P. Shah	Dr. U. A. Patel
Dr. D. U. Panchal	Prof. S. B. Bhatt
Dr. D. R. Shah	Prof. N. K. Patel
Prof. K. K. Pansal	Prof. G. N. Sutaria
Prof. A. G. Momin	Dr. D. K. Patel
Prof. S. J. Patel	Prof. D. M. Chandra
Prof. A. C. Pambhar	Dr. H. M. Gajera
Prof. H. R. Patel	Prof. K. P. Hirpara
Dr. N. H. Pancholi	Prof. M. D. Patel
Prof. N. K. Pranami	Prof. J. P. Dataniya
Prof. M. M. Makwana	Dr. M. D. Chaudhari
Prof. K. A. Patel (Adhoc)	Prof. S. B. Shah (Contractual)

5. Faculty and Student Achievements

- Dr. V B Patel, HoD Mechanical, have delivered an expert lecture on Defect (Porosity) analysis of product (Alloy Wheel) & micro-structure on 4th Feb 2023 at Steel Strips Wheels Limited, Mehsana.



- Mr. Jignesh G Parmar, Research scholar at GTU has completed Ph.D. under supervision of Dr. Komal G Dave, Professor, Mechanical Engineering on title “Multi Objective Optimization of End milling process parameter using AI Techniques” in month of February 2023.
- Dr. K G Dave has worked as coordinators for “Branding Committee” during Global Alumni Convention during January 2023. She has also effectively performed her role as coordinators of various portfolio of institute such as COE-welding, ICC, PG scholarship, stakeholder feedback and member of WDC during NBA visit at Institute in month of February 2023.
- Dr. Komal G Dave, Professor, Mechanical Engineering Department, L D College of Engineering, Ahemdabad, has been honoured for one of prestigious state level ISTE Gujarat secession award “ISTE GUJ-VBT State Award for Best Woman Teaching Faculty in Degree Engineering College” for year 2021-2022. She has been awarded by President ISTE, India Shri Dr. Desai at Inaugural ceremony of 26th State Annual Faculty Convention and Conference on 27th April 2023 at Indus University, Ranchharda, Ahemdabad.



- Dr. Nisha Bora has been invited as an expert by Department of Scientific and Industrial Research [DSIR], Gujarat State Biotechnology Mission [GSBTM], Dept. of Science & Technology, Govt. of Gujarat on 2nd February 2023 to review project proposal by evaluating the project potential and feasibility.
- Dr. Nisha Bora and Dr. A V Patel have been invited to attend a workshop on Healthcare Innovation & Open Innovation Practices on 2nd and 3rd March 2023 which has been held at i-Hub, Ahmedabad. The main objective of the workshop was to scout problem statement from healthcare domain and design thinking & allied tools for mapping opportunities in healthcare innovation.



- Prof. Mitul M Makwana has coordinated Lakshya '23 fest on 27 to 29 April, 2023 with its 50+ events in technical, non-technical and fun activities with participants from various colleges from all over Gujarat. It has the aim of installing the young minds with the idea of visualizing beyond the horizon, un-furling the wired mentalism accord of synergy amidst humans and robots in the forthcoming future, an era ushering with infinite discoveries.



- Dr. S S Pathan, Prof. Mitul Makwana, Prof. G N Sutaria and Dr. Mrunalkumar Chaudhari participated in the two-day "Orientation program for Proof of Concept (PoC) for Robo-making" held during 24-25th May, 2023 organized by India's biggest Robotics Competition, ROBOFEST- GUJARAT 3.0 Competition at Gujarat Science City, Ahmedabad.

- Prof. Mahendra Y Patil has visited Ujjain Polytechnic College, Ujjain to deliver expert lecture on "NBA team visit preparations" on 25/03/2023. He has participated in webinar conducted by ARK Infosolution Pvt. Ltd. on "Ansys Solution for Fracture Mechanics" on 14/03/2023.

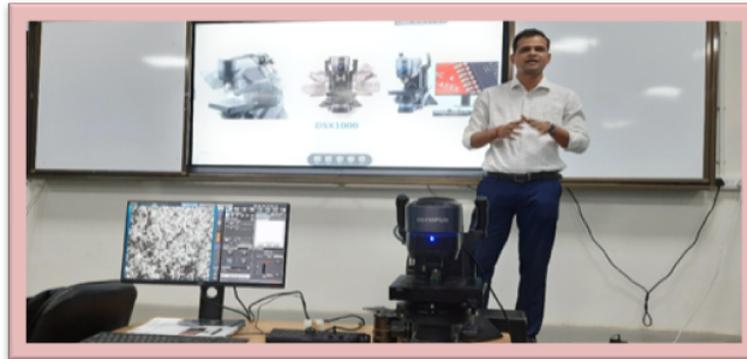
- Prof. M K Vyas and Prof. G N Sutaria have worked as coordinators for 'Technical model display' event on 18-19 May 2023 for the two days "National Technology Day" celebration organized by Prakalpa club in collaboration with Institute for Plasma Research, Gandhinagar and IIC cell LDCE.



- Dr. M. D. Chaudhari has delivered expert talks at Centre of Excellence - Welding, L. D. College of Engineering on 7th March and 6th May, 2023 on the topic of "Welding Metallurgy" as a part of 10 days program "Fundamentals of Welding" organized for students.

- Dr. M. D. Chaudhari has delivered an expert talk at Metallurgy Department, GEC Gandhinagar on 24th May, 2023 on the topic of "Phase Transformations in Solids" as a part of One-week webinar series on "Metallurgy & Material Science 2023", organized by GEC Gandhinagar in collaboration with Students Society of Metallurgy Engineers Gandhinagar.

- Dr. M D Chaudhari has organized a demonstration of Olympus DSX1000 Metallurgical Microscope in collaboration with IR Technology Services Pvt Ltd on 17th May, 2023 at Mechanical Engineering Department, L. D. College of Engineering.



- Mech - Auto cricket team, under captainship of Prof D U Panchal has secured Runner-up position in LDCE Faculty Tournament 2023.



- ISHRAE Student Chapter of Mechanical Engineering Dept. has participated in Quizo 6 organised by ASHRAE Western India chapter at Silver Oak Engg. College, Ahmedabad on 18th March 2023. LDCE team stood 1st runner up among teams of Cept, IITRAM, Nirma, and SOCET. They have been awarded with prize money of Rs 15000/- and certificate.



- Mechanical Engineering Dept. ISHRAE Chapter students participated at Quest'23 Quiz organized by ISHRAE at National level. Students were qualified for finals at Rajiv Gandhi Institute of Technology, Mumbai on 17th March 2023 and stood 2nd runner up, with prize money of Rs.5000, trophy and certificate. Prof V B Patel and Prof S A Sarswat have continuously guided and motivated students for various completion at national level.



- Students of BE Sem 6th Mechanical Engg, Jay H Pipaliya and Nishil A Chovatiya have been selected for the study of a full one semester IIT Gandhinagar, under non-degree program.
- BE Final year student Mahmmad Hussain R Sama scored 66 marks with GATE score 778 with All India Rank 162.
- ME (Cryo) students Mr Prajapati Sunil and PDDC student Mr. Vimal Patel have got gold medal in GTU's 12th convocation.
- Prof. Mitul Makwana, Prof. G N Sutaria, Prof. D K Patel and Dr. Mrunalkumar Chaudhari received recognition for mentoring an award winning project in India's biggest Robotics Competition, ROBOFEST- GUJARAT 3.0 on the foundation day of L. D. College of Engineering on June 20, 2023.



- During COE welding training 1/3/2023 to 13/3/2023, students of BE sem 6 have made best items from waste by using various welding techniques. Students are Jainish Prajapti, Harsh Akbari, Nidhi Gamit, Ishika Sarvaiya, Pranjal Lakhani, Anik Kharodiya, Tanishq Shah, Sunny Jariwala and Raj Gor.



- National level robotics competition DD Robocon 2023 has been held this year by IIT Delhi in collaboration with Prasar Bharati. Team Robocon LDCE participated in the DD Robocon 2023. The theme of 2023 brought a lot of exciting opportunities and new challenges for the team. Team members learnt a lot of new skills, worked around a lot of innovative ideas and developed a lot of understanding of robotics and engineering. Team prepared the technical documentation for Stage-1 of DD Robocon 2023 and scored a perfect 100 in Stage-1. With even stronger conviction, team started manufacturing the robots for Stage-2 (PoC round). All efforts paid off when the team scored 96 marks in Stage-2 and qualified for the DD Robocon 2023 Nationals on 17-18 June 2023. Team achieved the “Visvesvaraya Design Award” for the Best Design and stood 4th in all over India. Team Leader of Robocon 2023 was Ms Manaswini Joshi and faculty coordinator was Prof. Mitul Makwana.



- Final year students Keval shah and Kavish shah secured first and second prizes in Kaizen 2023 under mentorship of Prof. M K Vyas.
- In Interdepartmental Mathematics Challenge 2023 first prize was secured by Mechanical department team comprising Mihir Bhogayta, Mayank Mohata and Divya Vaghasiya of first year.
- Total 46 students of BE Mechanical Sem 4 and 6 have successfully completed IIT Bombay certification courses in Python, Qcad and Ardino under the spoken tutorial.

6. Research and Development Activities

- A design patent on ‘Pressure cooker’ was granted by patent office, Govt. of India to Dr. Vikarm B Patel on 06th April 2023 with patent no. 383233-001.
- Dr. Ragesh Kapadia has published paper in Materials Today: Proceedings Elsevier titled “Review of the effect of foldability and working fluid on the performance of flexible pulsating heat pipe for foldable applications” Vol. 82, 2023, page 234-240, doi: <https://doi.org/10.1016/j.matpr.2023.01.177>
- J. G. Parmar, GTU Ph D scholar and Dr. K. G. Dave, professor, Mechanical, LDCE have published a technical paper on title “Optimization of End Milling Process Variables Using Multi Objective Genetic Algorithm” in Advanced Manufacturing Processes, CRC Press, Taylor & Francis in year 2022-2023.
- Dr. Komal G. Dave, Professor, Mechanical, LDCE and Prof Manta Patel have published a technical paper on title “Compacted graphite iron mass production challenges using traditional

foundry practices” in Industrial Engineering journal ISSN : 0970-2555, Vol. 52, Issue 6, June 2023, of Indian Institution of Industrial Engineering.

- Dr. Komal G. Dave, Professor, Mechanical , LDCE and Prof NimishaGoswami have published a technical paper on title “A review on method for drilling operations and performance analysis of different materials” in international journal ‘High Technology Letters’ ISSN 1006-6748, Vol. 29, issue 6, June 2023.
- Prof. Dhruv Panchal has successfully completed his PhD on the topic "Experimental investigation on characteristics of centrifugal clutch with groove pattern on friction liners" under mentorship of Dr B. K. Patel from Gujarat Technological University in the month of June 2023.
- Prof. Dhaval Patel has successfully completed his PhD on the topic" Tribological Characterization of Complex Carbides coating using HVOF Process" from Gujarat Technological University under guideship of Dr Pina M Bhatt, Principal of Aditya Silver Oak Institute of Technology in the month of June 2023.
- A design patent on ‘Solar water distillation apparatus’ was granted by patent office, Govt. of India to Prof. Kamleshkumar Pansal on 21st January 2023 with patent no. 377770-001.
- Prof Samir B Shah, Assistant Professor, Mech Dept, LDCE, Dr. Komal G. Dave, professor, Mechanical, LDCE, Dr. Vishvesh Badheka, Professor, PDUE and Prof Dhaval Patel, Professor, GEC, Palanpur have published a technical paper on title “Optimization of process parameters of Ultrasonic metal welding for multi layers foil of AL8011 material” in international journal ‘Welding International’, publication Taylor & Francis, Vol. 37, No. 3, page 119-127, April 2023.,<http://doi.org/10.1080/09507116.2023.2192373>.
- Ideation on designing “Two Wheeled Self Balancing Robot” and “Others Category” at the India’s biggest Robotics Competition, ROBOFEST- GUJARAT 3.0 Competition submitted by the team comprising of Suthar Jay Anilbhai, Patel Dhyan Yogeshbhai, Kumbhar Sagarbhai Narashibhai, Halpati Meet Ashokbhai and Kanth Harshraj Vivekanand under the guidance of Dr. Mrunalkumar Chaudhari of LDCE. It has been selected from Level I (Ideation) to Level II (Proof of Concept) in both categories. The team has won a cash prize of Rs. 50,000/- for their creative idea of robot making titled “Two Wheeled Self Balancing Robot” as well for as their idea of robot making titled “AAPI”.
- Ideation on designing "Submarine and Underwater Robot" in the India’s biggest Robotics Competition, ROBOFEST- GUJARAT 3.0 Competition submitted by the team comprising of Aayush Vasava, Hardik Vyas, Jyot Shayara, Samarth Soni and Vishwam Patel under the guidance of Dr. S S Pathan and Prof. G N Sutaria of LDCE. It has been selected from Level I (Ideation) to Level II (Proof of Concept). The team has won a cash prize of Rs. 50,000/- for their creative idea of robot making titled “VARAH”.

7. Departmental Activities

- On the occasion of the 75th year of L D College of Engineering, Ahemdabad, as a part of Platinum Jubilee Celebrations, a Global Alumni Convention was organised on 6-8 January 2023 wherein alumnus from across the globe have participated. The Purpose of the event was to provide a platform for the entire alumnus to come together, celebrate the legacy and support alma matter for Envisioning Future & Foster a sense of Community. During the 3 days alumni meet there were various events such as Panel discussion with prominent alumni, Alumni

Engagement Sessions & Networking Events, Departmental tour and Reunion etc. A total of about 150 alumni registered for attending the meet and about 80 Reunion at Mechanical Department. Those who could not join in person attended the event in online mode. A special reunion of retired professors was organised on 6thJan 2023. Dr R K Gajjar, Principal, Dr.V B Patel, Prof and Head Mechanical dept. have share their visons to all alumnus. Prof D R Shah has given the presentation of departmental achievements and activities. Alumni shared their stories and success mantras.



- As a part of this global convention 2 smart class rooms were sponsored by our prominent Alumni Shri Ashokbhai Thakkar (1971 Batch Alumni) and Shri Chandru Motwani and group. They have donated a sum of total 25 lacs for both the class rooms. The smart classes were inaugurated on 6th Jan 2023 and inauguration ceremony has been coordinated by Prof. Nisha Bora successfully.
- Shri Haresh R Patel, donated 10 Lacs for smart classroom.



- Shri Janardan Shukla, Shri Pradeep Pandya, Air marshal P K Desai, Shri Kiran Patwari, Shri Niranjn Shah and Shri Sudir R Gandhi have also donated 4.61 Lacs smart classroom.
- Shri Chandrakantbhai Patel, Alumni 1972 Batch, Managing Director, Mamata Machinery Pvt. Ltd. has donated Rs. 25 lacs for the development of Hydraulics & Pneumatics laboratory.
- Shri Paragbhai Shah, Alumni 1992 Batch Group chairman, E-Global Group of companies has donated Rs.11 lacs for the development of the innovation lab.

- An expert talk of Mr Jaimin Desai, Group Director SAC ISRO & Senior Mechanical alumina of LDCE on “Test facilities available at SAC ISRO” has been arranged on 17th January 2023 at recently inaugurated smart class 402 for BE Mechanical and ME Cryogenic Engg. Students. The event was coordinated by Dr. Nisha Bora.



- An MOU has been signed between BLUE STAR India Ltd and LDCE to set up Centre of Excellence COE in Mechanical Engineering Department on 18th Jan 2023. The objective of the centre is to impart training related to HVAC to LDCE students, faculties and other students who are under the domain of Directorate of Technical Education, Govt. of Gujarat and technicians and executives of Blue Star. This would make the students professionally more competent and industry ready.



- Industry sponsored HVAC training centre was inaugurated on 28th March 2023 at Mechanical Engineering Department, L D C E in association with Blue Star Limited. The centre was inaugurated by LDCE principal Dr. Rajul Gajjar and Mr. Michal Angre, Senior GM Customer Service, Blue Star Ltd, Mumbai along with Mr Sanjeev Rastogi, GM Senior Lead Specialist and Mr Biju Vergees, Project Director – Electronics from Blue Star Ltd, HOD Mechanical Dr. V B Patel, Dr. Nisha Bora, HODs of other departments of LDCE, faculties and students. In line with the mission of the college that is to provide quality education that meets the needs of industries, this COE is established This Centre of Excellence is first of its kind in Gujarat in association with Blue Star Ltd.



- A workshop on “Installation of HVAC system” has been organised for semester 6 Mechanical students on 31st March 2023. Students have an exposure to various operations carried out during installation of various types of HVAC systems. They had hands-on practice of copper tube bending, tube cutting, flaring, swagging, brazing and gas charging. The workshop was conducted by Dr. Nisha Bora and Prof G N Sutaria in association with Mr. Gaurav Viradia from Twin Cool Engineering.



- An alumni meet of 82 passed out of Mechanical Engineering LDCE took place on 21st Jan 2023 at Mechanical Workshop where Dr. Nisha Bora and Prof R O Paliwal interacted with them to discuss the ways to strengthen the alumni and present students - faculties connect.



- An industrial visit has been organised at Space Application Centre – Indian Space Research Organization for ME Cryo students on 31st Jan 2023 by Dr. Nisha Bora. The students upgrade their knowledge about applications of cryogenic engineering for space simulation. The students visited the actual thermo-vac chamber which uses liquid nitrogen and liquid helium to maintain the desired temperature and combination of turbomolecular vacuum pump and cryo pump for maintaining desired pressure conditions in order to test the payloads.

- PDEU have organized one day workshop on “Advance Manufacturing Processes” at PDEU for the UG and PG students of Mechanical Engineering of L. D. College of Engineering, Ahmedabad under G20 summit interaction and IIW, India on 18-03-2023 and 22-03-2023 respectively. Dr. Vishvesh J Badheka, Professor and Dean (Academic Affairs), Head of the Department, Mechanical & Automobile Engineering, PDEU have provide wonderful opportunity by given permission and arrangement for the same. Dr. Komal G Dave, Professor, Mechanical department have made all coordination of this workshop with help of Prof S B Shah and Prof S J Patel. More than 70 students took participation in the same and enriched their knowledge in area of Advance in Manufacturing and Welding through practical demonstration of various processes such as RPT, FSW, Friction welding, EDM etc.



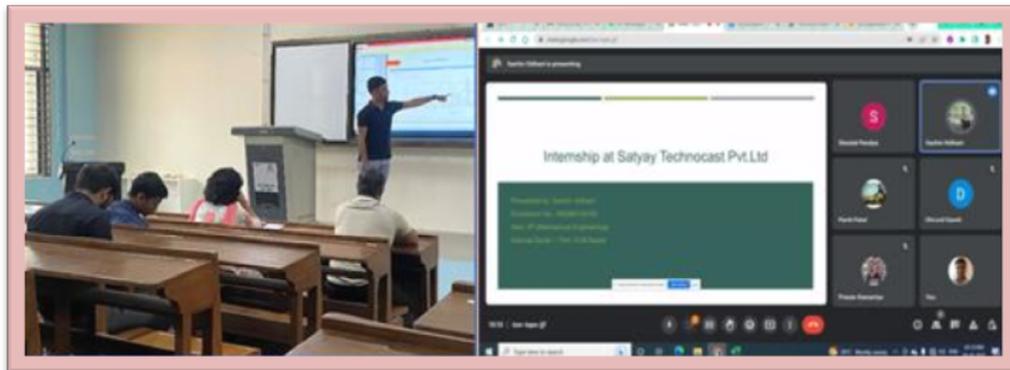
- Mechanical department in collaboration with IIC cell LDCE organized field visit to FABLab at CEPT University, Ahmedabad on 07thFebruary 2023. Total 43 students of Mechanical department along with Prof. Gaurav N Sutaria and Dr. Mrunal D Chaudhari have visited. This visit gives knowledge for prototype development based on the needs. Students also learned to use and select different materials for the development of a variety of models. They learned to use modern and user-friendly digital production machines like 3D Printer, 3D scanners, laser cutters, etc.



- Department of Mechanical & Automobile Engineering celebrated the science day-2023 under the banner of G20 on 28thFebruary, 2023. On this occasion, an eminent personality Dr. Prabhudas Thakkar, retired scientist from ISRO were remain present as an expert besides the team from Vikas Sansthan (NGO). During this expert session, HODs, faculties and students from both the departments have explored their knowledge about real work done by ISRO on benefit of mankind. Prof R G Kapadiya and Prof R J Jani have successfully coordinate whole event.



- Mechanical department have organised two interim reviews for industry internship of BE Sem 8 during semester as online/offline mode. Students have prepared and represented their work in front of department committees. Committees have checked each student progress and have gave useful suggestions for improvement. Major companies/industries where students selected for internship include ISRO, Tata Motors Ltd., L & T, Harsha Engineers International Ltd., CEAT tyres, Voltas, Hitachi, Raymond Ltd. and many more.



- A seminar on “Project Management for engineers” have been conducted by PMI student club on 17th June2023 for skill development, higher study opportunities and awareness regarding opportunities in field of project management for engineering students. Speakers for the event were Mr. Parth Joshi (Program manager of tech Mahindra, India PMI Champion) and Mr Alpesh savalia (Delivery Head of Aktiv software). Mr. Sandeep Karia have also in attendance as a mentor from PMI Gujarat chapter. Prof Dheeraj Chandra have coordinated the event under guidance of Head of Department Prof V B Patel.



- On 31st March and 1st April 2023, Prof.Krunal Patel and Prof.BhavikKadiya accompanied the Students of North - East India studying at LDCE to Participate in MadhavpurMela (Cultural Event) Organized by GOG at Madhavpur – Ghed.



- Mechanical department has organized industrial visits on 28-29 March, 2023 at Indo-German Tool Room under ministry of MSME department, Ahmedabad for students of BE Sem4. IGTR is equipped with the latest European machines and a motivated and trained professional team. During a visit students have visualized working condition of various CNC machine tools, CMM machine, ordinary machine, KUKA robot for welding, Plastic injection moulding section, measuring instruments, plastic and metal rapid prototyping tool (3D printer). This whole industrial visit is coordinated by Prof. A. G. Momin, Prof. D. K. Patel, Prof. S. B. Shah and Mr. M.I. Solanki.



- LDCE Alumnus batch 1964-1965 -Air Marshal Mr. PK Desai, Mrs RanjanMasurekar, Mr. Janardan C Shukla, Mr. Pradeep Pandya, Mr Kiran Patwari, Mr. Sudhir R Gandhi and Mr. Niranjana C Shah have contributed Rs.4,62,000=00 for smart class room of Mechanical

Engineering towards establishing smart classroom in mechanical Department through L D Alumni Association LAA.

- Mamata Machinery Pvt Ltd has contributed Rs 25 lakhs towards lab upgradation and new lab setup in Mechanical Engineering Department, LDCE through L D Alumni Association LAA. An MOU was signed by mechanical engineering department, LDCE and Mamata Machinery Pvt Ltd on 23rd March 2023.



- A session on “Career Opportunities in Fabrication Industry” has been organised for mechanical students on 12th April 2023. Mr. Sudhir Gandhi - Advisory to Board, Gujarat Infra pipe Ltd. Baroda has delivered the session. More than 80 students and 10 faculties have participated. The session was coordinated by Prof G N Sutaria and Prof. M D Chaudhari under the guidance of Dr. V B Patel and Dr. N V Bora. The session focused on latest skill requirements in fabrication field as a mechanical engineer.

- Mechanical department faculty members and students have set an example of holistic approach of department by celebrating Holi festival from their high end education, research and start up policy.



- Appreciation Ceremony was organized for Winners of India’s biggest Robotics Competition, ROBOFEST- GUJARAT 3.0 Competition at Room No. 603, Mechanical Engineering Department on 4th May 2023. 5 winner teams were recognized for their exceptional work in the categories of Submarine and Underwater Robot, Two Wheeled Self Balancing Robot and AAPI.



● Mechanical Engineering Department has successfully organized Kaizen 2023 on date 09-10 May 2023. Projects fair of final year under graduate course is organized to demonstrate their internship and research work to society and other students. Total top 40 internships / projects from total 166 groups of BE course have been evaluated by renowned industrialist and senior faculty members of department. Students participated with great enthusiasm and passion. Constructive and motivating suggestions were given by evaluators to the students for further improvement. Dr. Nisha Bora, Kaizen department coordinator and project incharge and project committee members Prof G N Sutaria, Prof N K Patel and Prof A C Pambhar have coordinated all events successfully and efficiently with supportive guidance by Dr. K G Dave and Dr. V B Patel. All the faculty members of the department encouraged students to develop positive attitude. Winners have been awarded with prize money and certificates.

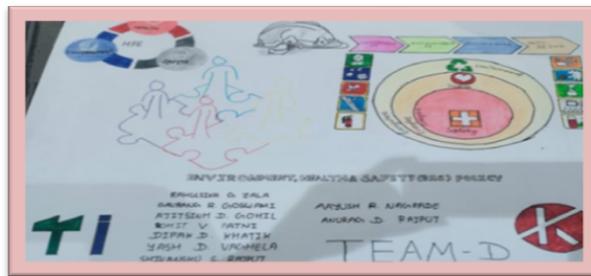


8. COE Welding Activities

- CoE Welding – Keepsake welding Research and Skill Development center has organized 28 training programs for the students of engineering colleges, ITI and people from industry. In addition to instructing students in the fundamentals of welding, KWRS D provides a good platform for them to learn about social awareness as well as actual hands-on experience of the theory class through job manufacturing, ranging from drawing to model fabrication.
- Keepsake Welding Research & Skill Development Centre of Excellence, L.D.C.E, Ahmedabad has organized half day workshop on “Welding Automation” on date 15/02/2023. The objectives of workshop are 1.Awareness about the basics of welding process, 2.Awareness about the need of automations 3.Experience on the augmented reality welding simulator and 4.Demonstration with automatic welding station to students all branch as multi-disciplinary activity and knowledge shearing. Conveners Dr. R K Gajjar& Mr. R N Bateriwala and Coordinators Dr. V B Patel, Dr. K G Dave, Prof D K Patel, Dr. M D Chaudhari and Mr. Mandeep Chopra have planned and organized the same with objectives as imparting higher education, research and training in various fields of engineering & Technology.



- Centre also provides technical support to PhD scholars and Graduates & Post graduates students for their research and project works. Numbers of activities have been performed at center such as various training for different level of students and industry personals, expert lectures and visit to center by other institution and organization.COE welding has been visited by number of renowned personals such as Prof. Veronique Vitry, UMONS – Belgium, Dr.NiravJamnapara, Chairman – ASM Gujarat, Mr. Tejas Mehta, Director – Tejas Metal &Plast Products, Mr.RajeshMahatpure, Unit Head – Image Gravures Group, Mr. MehulPrajapati, HR - Image Gravures Group,Mr. Asit Shah, MD – Radhika TechnologiesDr.PierpaoloCarlone, Professor Manufacturing Processes & System (Italy) & Trustee of ASM International, Mr. NrusinghaCharan Swain, Manager- Aspire Disruptive Skill Foundation,etc. for inaugural and valedictory functions of various training programs.



9. Student Placement

- Students of BE and ME Mechanical have been placed during Year 2022 - 2023.

Sr. No.	Student Name	Enrollment No	Company Name
1	Rabari Kuldeep Rajubhai	190280119111	DCM Shriram
2	Kanzariya Pranav Chandubhai	200280119507	DCM Shriram
3	Rami Sohamkumar Nilangbhai	200280119513	DCM Shriram
4	Porwal Vaibhav Shailesh	190280119105	UPL Limited

5	Chaudhari Hareshbhai Tejabhai	190280119011	UPL Limited
6	Urmi Mansukh Dhama	190280119023	Analog Devices
7	Patel Vishalkumar Kanaiyalal	190280119097	Torrent Power
8	Pathar Parthkumar Sureshbhai	190280119101	Worley
9	Shah Vraj Samir	190280119129	Worley
10	Rathod Nidhi Kishorkumar	190280119116	Worley
11	Suthar Meetkumar Hareshbhai	190280119135	Torrent Power
12	Thakur Virat Subodh	190280119143	MG Motor
13	V Adarsh Jose	190280119146	MG Motor
14	Rathod Nidhi Kishorkumar	190280119116	MG Motor
15	Katariya Harsh Himmatlal	190280119042	TCS NINJA
16	Patel Het Vikrambhai	190280119084	TCS NINJA
17	Patel Naman Alkeshkumar	190280119092	TCS NINJA
18	Rathod Nidhi Kishorkumar	190280119116	TCS NINJA
19	Shah Kewal Ketan	190280119127	TCS NINJA
20	Sheth Rohan Nageshbhai	190280119130	TCS NINJA
21	Shaikh Zaheen Mohammad Shakir	200280119508	TCS NINJA
22	Bhatt Zeel Prakashbhai	190280119008	L&T
23	Nakum Divyaraj Jayendra	190280119059	L&T
24	Patel Naman Alkeshkumar	190280119092	L&T
25	Shah Deep Snehal Kumar	190280119124	L&T
26	Sheth Rohan Nageshbhai	190280119130	L&T
27	Jadav Jaydeep Yashwantbhai	190280119034	Atul Ltd.
28	Makadiya Darsh Nileshbhai	190280119055	Atul Ltd.
29	Parmar Manthan Hareshbhai	190280119075	Atul Ltd.
30	Mevada Rohitkumar Ashokbhai	200280119511	Atul Ltd.
31	Dhruve Jeet Manoj	190280119024	CEAT
32	Chauhan Surajkumar Hareshbhai	190280119015	CEAT
33	Thakar Hetvi Anilkumar	190280119140	CEAT
34	Parmar Manthan Hareshbhai	190280119075	L&T
35	Dhruve Jeet Manoj	190280119024	L&T
36	Thakar Hetvi Anilkumar	190280119140	L&T
37	Gamit Dhruvil Kumar Harishbhai	190280119027	L&T
38	Bhatt Tushar Gangarambhai	190280119006	L&T
39	Rathod Jaykumar Maheshkumar	190280119115	L&T
40	Kartikkumar Panchasara	190280119070	L&T
41	Popat Darshil Vijay	190280119104	L&T
42	Maru Jigar Rajeshbhai	190280119057	L&T
43	Patel Harsh Dilipbhai	190280119082	L&T
44	Patel Joyalkumar Dharmendrabhai	190280119086	L&T
45	Chaitya Nirav Gosalia	190280119010	JOHNSON CL HITACHI
46	Dahodwala Kausharali Najmuddin	190280119020	JOHNSON CL HITACHI

47	Kansara Pranay Ketanbhai	190280119038	JOHNSON CL HITACHI
48	Patel Bijen Dhirubhai	190280119078	JOHNSON CL HITACHI
49	Prajapati Divyeshkumar Vipulbhai	190280119107	JOHNSON CL HITACHI
50	Vaishnav Manthan Mansukhbhai	190280119148	JOHNSON CL HITACHI
51	Notariya Sagar Manojkumar	190280119062	L&T
52	Parmar Ajay Shaileshbhai	190280119072	L&T
53	Maheshvari Ansh Shaileshkumar	190280119054	L&T
54	Tanna Harsh Mukeshbhai	190280119138	RELIANCE
55	Bochiya Mehul Hamirbhai	200280119514	RELIANCE
56	Prajapati Deep Mohanbhai	200280119501	RELIANCE
57	Vidhani Sachin Dilipkumar	190280119152	RELIANCE
58	Shaikh Zaheen Mohammad Shakir	200280119508	RELIANCE
59	Karmur Abhay Ranabhai	190280119041	RELIANCE
60	Sachaniya Digneshbhai M	190280119119	RELIANCE
61	Kathiriya Chandresh Ganpatbhai	190280119044	RELIANCE
62	Shah Kewal Ketan	190280119127	RELIANCE
63	Bhanushali Ajay Mamubhai	200280119525	RELIANCE
64	Chaudhari Markkumar Kanubhai	190280119012	ADANI
65	Chhatrala Keyur Dineshbhai	190280119016	ADANI
66	Chudasama Sumit Dhirajlal	190280119019	ADANI
67	Lotwala Om Manishkumar	190280119053	ADANI
68	Panchal Harsh Dineshbhai	190280119066	ADANI
69	Patel Parthkumar Harshadbhai	190280119094	ADANI
70	Prajapati Dhruhilkumar M	190280119106	ADANI
71	Talekar Ujwal Prabhakar	190280119160	ADANI
72	Unjiya Hiren Jaysukhbhai	190280119145	ADANI
73	Brahmbhatt Yash Hareshkumar	200280119515	COROMANDEL
74	Jethva Ankit Maheshbhai	190280119036	AARTI INDUSTRIES
75	Katariya Harsh Himmatlal	190280119042	AARTI INDUSTRIES
76	Panchal Jinay Jagdishkumar	190280119068	AARTI INDUSTRIES
77	Parmar Divyesh Niranjanbhai	190280119073	AARTI INDUSTRIES
78	Patel Het Vikrambhai	190280119084	AARTI INDUSTRIES
79	Patel Karan Ketanbhai	190280119087	AARTI INDUSTRIES
80	Pateliya Chiragkumar Laxmanbhai	190280119100	AARTI INDUSTRIES
81	Prajapati Jagdish Pratapbhai	190280119108	AARTI INDUSTRIES
82	Senta Hardik Harjibhai	190280119123	AARTI INDUSTRIES
83	Shah Harsh Kamleshbhai	190280119125	AARTI INDUSTRIES
84	Vala Vishv Vinodray	190280119149	AARTI INDUSTRIES
85	Patel Karan Ketanbhai	190280119087	Adani
86	Senta Hardik Harjibhai	190280119123	Adani
87	Pateliya Chiragkumar Laxmanbhai	190280119100	Adani
88	Padaliya Rajkumar Mukesh	190280119063	Adani

89	Patel Saurabhkumar Ishvarbhai	190280119095	Adani
90	Prajapati Yashkumar Maheshbhai	190280119109	Adani
91	Saiyad Mohammad Maaaz T	190280119121	Adani
92	Vaghamshi Pujit Dipakkumar	190280119147	Adani
93	Vaniya Himanshu Manubhai	190280119150	Adani
94	Goswami Rahilgiri Vishalgiri	190280119032	Torrent Gas
95	Bhavsar Pratham Tusharkumar	190280119009	CEAT
96	Sorathiya Vishvasbhai H	200280119510	CEAT
97	Prajapati Tarpan Manishbhai	200280119523	Matter
98	Parmar Keyur Ashokkumar	200280119524	Matter
99	Nakum Mehul Kishorbhai	190280119060	VOLTAS
100	Meghval Pappubhai Ravjibhai	200280119505	VOLTAS
101	Palodara Aayush Maheshbhai	190280119065	ACADEMOR
102	Prajapati Tarpan Manishbhai	200280119523	ACADEMOR
103	Karatheeya Nisarg Mukeshbhai	190280119040	AIR PRODUCTS
104	Sama Mahmmd Hussain Rafikbhai	190280119122	AIR PRODUCTS
105	Pedva Tushar Navin	200280119509	AIR PRODUCTS
106	Kapadiya Bhautik Bhupatbhai	190280119039	DEEPAK GROUP
107	Kukdiya Kartikbhai Dineshbhai	190280119048	DEEPAK GROUP
108	Pethani Dhruvik Dineshbhai	190280119103	DEEPAK GROUP
109	Thaker Chirag Hiteshbhai	190280119141	DEEPAK GROUP
110	Rupinder Raj Karan	200280119503	DEEPAK GROUP
111	Rana Jainam Nileshkumar	190280119113	NAYARA ENERGY

10. Creative Corner

जिंदगी

इन १८ सालों में जिंदगीने बहुत चीजें सीखाई है। यहा तक कर रुकना और हार मानना दोनोकी मनाई है।

अगर जिंदगी सफर है तो शुरुआत कौन है? अगर मंजिल मौत है तो घबराहट क्यों है?

शायद जिंदगी सफर नहीं मौका है। जिसे मिली सफलता तो समझो लग गया चौका है।

हार और जीत एक बात है। पर हार ना मानना एक अलग एहसास है।

माना एक मोड़ पर लोग अकेला छोड़ जाते हैं। कसमें के साथ वादे तोड़ जाते हैं।

दूसरों को छोड़तू बस खुद पर यकीन कर। जो किसीने नहीं किया वो तू आज मुमकिन कर।

जिंदगी जंग है यहाँ तैयारी सब कुछ बताती है। ये धीमी आंच पर अगियारीसा जलाती है।

उठ और बता दुनियाको तुझमें अब आग कितनी है। गिरनेसे मत डर यहाँ दागही किमती है।

जिंदगीने एक और बात सिखाई है। जिंदगी क्या है ये सिखना जिंदगीकी सबसे बड़ी पढाई है।

Student Name: Singh Harshita (Enrollment Number:- 200280119139)
Semester: 7, Mechanical Engineering