

# TECH PULSE

*The Quarterly Newsletter by L. D. College of Engineering*



## ABOUT THE INSTITUTE

Lalbhai Dalpatbhai College of Engineering endearingly known as L.D.C.E is Ahmedabad's Premier Engineering Institute located in the heart of the city. Established in 1948 with an aim of imparting quality higher education in various fields of engineering, it has seen unprecedented growth. It is affiliated with Gujarat Technological University & administrated by the Directorate of Technical Education, Government of Gujarat.





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# HIGHLIGHTS



**Vision Mission**  
**Message from Principal**  
**Major Events**  
**Industry - Institute Interaction**  
**Research and Development**  
**Students' Achievements**  
**Faculties' Achievements**  
**Community Engagement**  
**Sports**  
**Papers Presented/Published**  
**Professional Development**  
**M. E. Dissertation**



# OUR MILESTONES

## VISION

To contribute for sustainable development of the nation through achieving excellence in technical education and research while facilitating the transformation of students into responsible citizens and competent professionals.



## MISSION



- To impart affordable and quality education in order to meet the needs of industries and achieve excellence in the teaching-learning process.
- To create a conducive research ambiance that drives innovation and nurtures research-oriented scholars and outstanding professionals.
- To collaborate with other academic & research institutes as well as industries in order to strengthen education and multidisciplinary research.
- To promote equitable and harmonious growth of students, academicians, staff, society and industries, thereby becoming a center of excellence in technical education.
- To practice and encourage high standards of professional ethics, transparency and accountability.





## FROM THE DESK OF PRINCIPAL

Dear Students and Faculty Members,

A remarkable year has come to an end with many developments to the credit of our institute. The enthusiasm with which we have worked throughout the year is precious and contagious.

The last three months of the year 2021 were a great phase for academic achievements. We have been granted 08 patents. It is delightful to see that many of our professors were invited as experts for various online FDPs, Workshops, and Conferences.

I wish that the New Year rings in with more accolades for our students and faculty, and we reach new heights of academic excellence and innovation.

And I believe together we can do it.

With best wishes

- **Dr. R. K. Gajjar**



# MAJOR EVENTS

## (Institute level/Department level)

- An MoU was signed between Ambuja Cement Pvt. Ltd. and L. D. College of Engineering, Ahmedabad. This was a strategic agreement signed under the aegis of the Vibrant Summit. The MoU ceremony was held in the Vishweswaraya Hall of Applied Mechanics Dept. Shri Umesh Soni (Technical Director, Ambuja Cement Pvt. Ltd.), Shri Ashish Bhai from Ambuja Cement exchanged the signed agreement with Major Dr. C. S. Sanghvi on behalf of the Institute.



- HR Meet was organized by SAE LDCE Club, at L. D. College of Engineering on 16/10/2021 with an aim to establish a bridge between modern industries and future engineers who are prime assets for the development and the prosperity of our great nation. Dr. R. K. Gajjar, Chairperson, SAE India Western Section Gujarat Division, Prof. R. J. Jani, Secretary, SAE India Western Section Gujarat Division and Mr. Anil Chunch- CEO- Popular Wheelers, BOG Member and SAE India Western Section Gujarat Division took initiative for this meeting. 18 Industrial persons attended the meeting along with 20 faculty members.





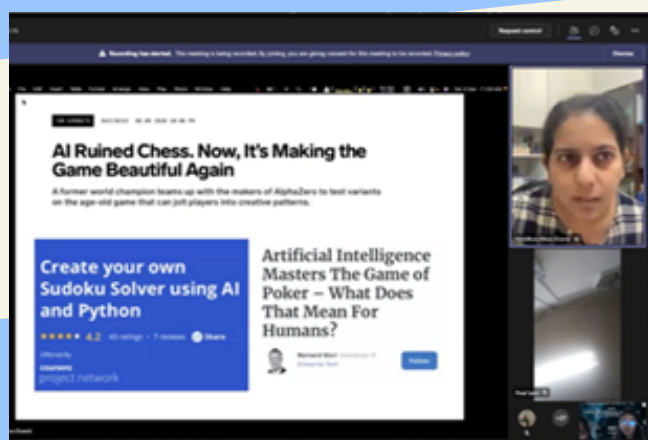
- UMANG '21 fest is a national-level event, backed by the SAE India WS-Gujarat division which was organized virtually on an online platform. A two-day extravaganza on the 30th and 31st of October 2021 was put in order by the GTU students, making the weekend very productive for all the people who were involved in the fest. On 30th October 2021, UMANG '21 commenced with all the super fun non-technical events like BGMI, Valorant, Among us, Chess and Sudoku. On 31st October 2021, the day began with very cultivated technical events like the Business plan, CAD modeling, Brain Drain, Machine Maniac, bits & bytes and Code-X. Aside from these events, there were some riveting week-long events like logo-making, meme-making, photography and poster-making. More than 2000 students have participated in this event. The event was coordinated by GTU Motorsports Team under the SAE LDCE Colligate club.



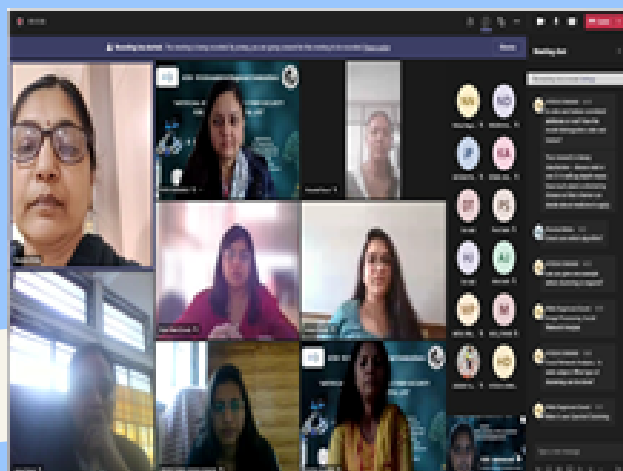
- Quizathon 2.0 was organized from 25th October to 30th October 2021. The overall aim of the event Quizathon 2.0 was to spread awareness about Automobiles among the participants and to enhance their fundamentals and knowledge related to the Automobiles, such as tools, engines, mechanisms, assembling, etc. The other major goal achieved is to develop the Creative-Thinking or Thinking out of Box among the members. In this event, the participants were from various leading colleges such as L.D.C.E, L. J. Polytechnic, Silver Oak, A.I.T, VGEC, NIRMA University, Adani, etc. The winners were rewarded with prizes. Around 360 students from the above colleges had participated. This event was organized by SAE LDCE Collegiate Club.



- Information Technology and Computer Engineering department had jointly organized a national level conference of ACM - W Ahmedabad Regional Celebration supported by ACM Student Chapter and ACM-W India in association with ACM Ahmedabad Professional Chapter and Ganpat University, on the theme "Artificial Intelligence and Cyber Security for Enhancing Digital Life" on 4th December 2021. Major events were expert talks, paper presentations, coding competitions, and innovative project presentations. Around 200 participants had attended the conference, 6 papers had been presented on the latest technologies, 44 students took part in the coding competition held on the Codechef platform and 5 innovative projects had been demonstrated.
- Dr. Neeldhara Misra, - Associate professor at IIT, Gandhinagar, delivered a talk on Gaming using AI.
- Dr. Renuka Sindhgatta, - Senior technical staff member with IBM Corporation delivered an expert session on how AI and extended AI can be adopted for business process automation.



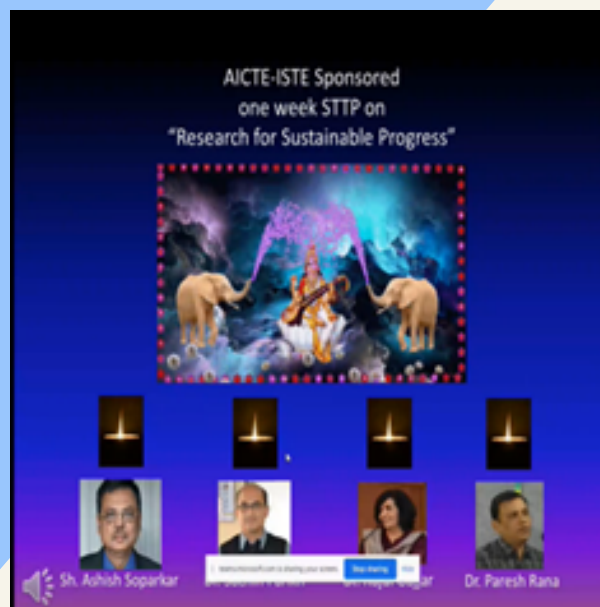
- Rubber Technology placement team had arranged a placement drive for CEAT tyres at the department on 24th December 2021 for Final year Rubber Technology students



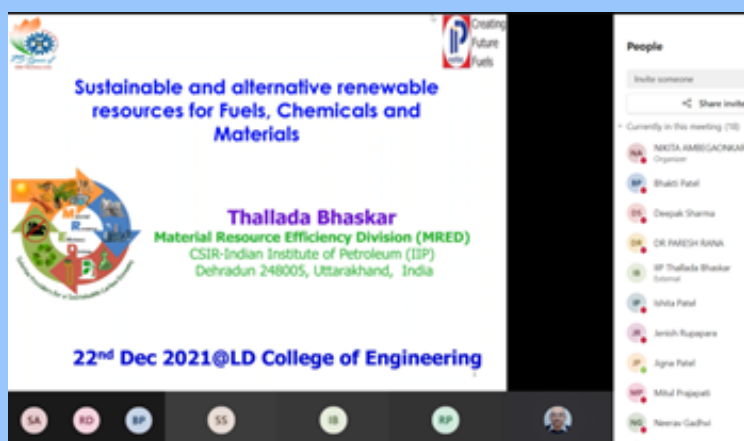


- An AICTE-ISTE sponsored online one-week short-term training program (STTP) on "Research for sustainable Program" was organized on 16th - 22nd December 2021, by the Chemical Engineering Department, L. D. College of Engineering, Ahmedabad.

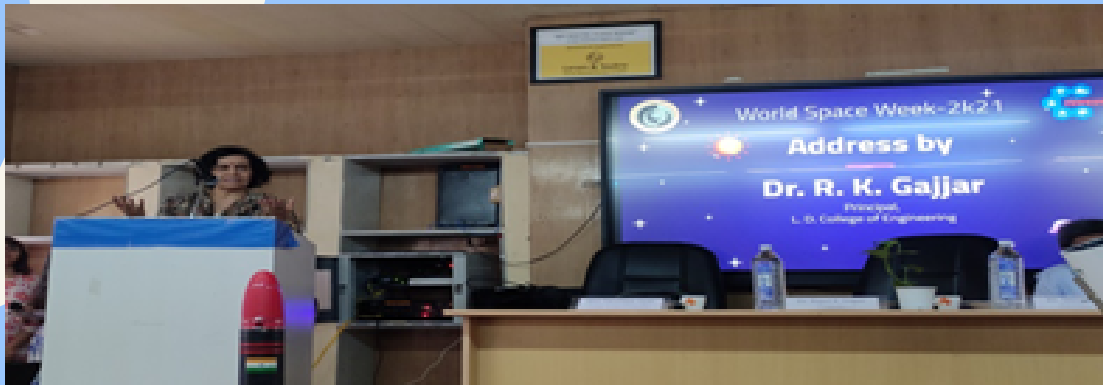
The inauguration of STTP was conducted in the presence of respected dignitaries, Dr. Rajul Gajjar, Patron and the Principal of L. D. College of Engineering and the Guest of Honour, Dr. Sachin P. Parikh, Jt. Director, Technical Education. Shri Ashish Soparkar, the Managing Director, Meghmani Organics Ltd. was the Chief Guest of the session. 60 participants from all over India attended the STTP along with faculty members of the Chemical Engineering department.



- Experts were invited from premier academic institutes like IITs/NITs and R&D organizations of CSIR like NEERI/NML for delivering lectures at the STTP. In-house faculty members of Chemical Engineering and allied branches, experts from industries were also invited to share the latest developments and their field of expertise with the participants.
- Special sessions on stress management (Art of Living) and NEP – 2020 were also organized in view of the present pandemic and academic scenario.



- The PRAKALPA Club, LDCE celebrated the World Space Week 2K21 at LDCE - Ahmedabad, in collaboration with Pandit Deendayal Energy University (PDEU)'s Astronomy Club Brahmand and Shri Tanmaye Vyas Sir by organizing multiple events in online and offline mode.



A number of events on the occasion of the World Space Week were conducted by the PRAKALPA Club, E. C. department from 4th to 10th October 2021:

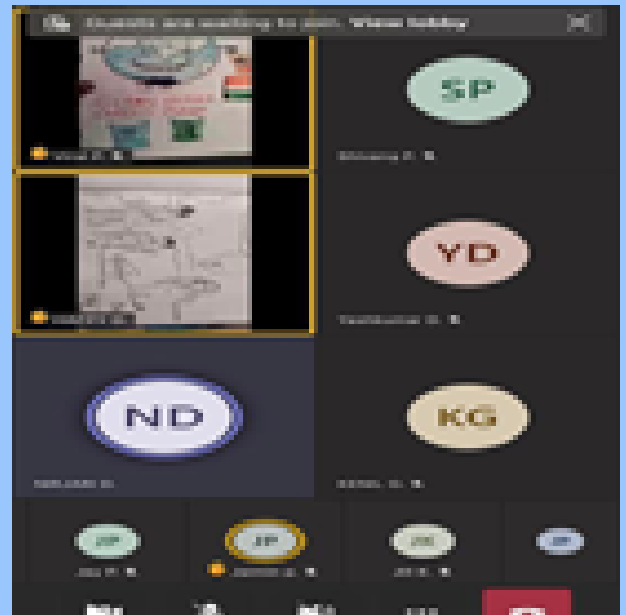
- Quiz competition named "Space-O-Holic"
- A webinar on the subject of Automating Space Exploration with Python, conducted by SPACE-O-NOVA - A Space Education and Research-based company situated in New Delhi
- A data analysis competition named "Astrolysis"
- Webinar on "Scientific Methods - The Story of Hidden Planets of Our Solar System" by Miss Rashmi Sheoran through an online platform - M. S. Teams. Around 100 students from the L. D. College of Engineering and other colleges participated in the webinar.



- A night sky observation session was arranged by the Prakalpa club in collaboration with Brahmand Club of PDEU and Shri Tanmaye Vyas sir.



- Information Technology department under the coordination of faculty members Prof. Jahanvi Patel, Prof. Nirjari P. Desai organized theme-based events on,
  - 1) Short storytelling
  - 2) Drawing
  - 3) Recitation of the poem for B.E. Sem-1 and M.C.A. Sem-1 students on an online platform M. S. TEAMS on 1/10/2021.
 100 students participated in the event.



- Prof. Dipsha Shah from CEPT university delivered an expert lecture on Smart Cities: Water and Sanitation on 30th November 2021 under the Institution of Engineers (India) ISTE chapter for U.G. and P.G. students. 81 students attended the same.
- A webinar on "Journey in the field on Astronomy" by Dr. Parshati Patel ( an Astrophysicist turned Science Communicator, and STEM Educator based in Ontario, Canada)
- CoE Welding – Keepsake welding Research and Skill Development center organized a training program on "Fundamentals of Welding" for the students of engineering colleges from 11/10/2021 to 21/10/2021. Around 24 students from different colleges have participated.
- Plastic Technology Department signed MOU'S under Strategic Partnership during VIBRANT GUJARAT 2022 with Dutron Plastics Pvt. Ltd. and Prutha Packaging Pvt. Ltd. on 15th December 2021.

# INDUSTRY - INSTITUTE INTERACTION

(Institute level/Department level)

- Under the mentorship of Dr. M. V. Shah, the team of Harsh Thakkar et.al won the 3rd prize at SSIP Hackathon 2021 under the category of "small sector of industry" with a cash prize of Rs. 25,000/- and certificate organized by DTE & GKS & SSIP (Government of Gujarat) as a part of the celebration of "Azadi ka Amrit Mahotsav" entitled 'Incentivizing Innovation & Empowering Start-ups' on 24th September 2021.



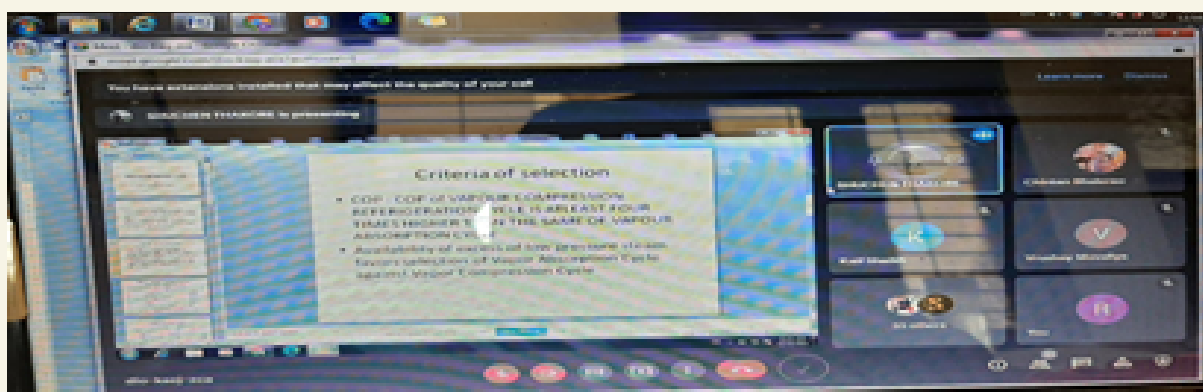
- Information Technology**  
department under the coordination of faculty members Bakul Panchal and Swati J. Patel organized a webinar for the students of BE Semester 5, ME Semester 1 on "AWS Basic Introduction". The session was conducted by Mr. Vikas Upadhyay, Cloud Engineer from Operisoft on 29th November 2021. Around 100 students participated in the event.
- Information Technology**  
department, under the coordination of faculty member Jaimin B. Chadva, organized a webinar for the students of BE and MCA Semester 1 on "CAPITAL Market Awareness by BSE-IPF & CDSL". 55 students participated in the event.
- Industry-Academia Meet** was organized on 4th December 2021 at the Civil Engineering Department, LDCE. The meet was graced by Ms. Panna Patel (Project Manager - Civil Infinite Solutions Private Limited, Ahmedabad), Ms. Anal Sheth (Head-R & D - Fuji Silvertch Concrete, Ahmedabad), Mr. Yagnesh Dave (Properiter - Translink Pvt. Ltd., Ahmedabad), Mr. Dhruv Patel (Project Engineer - Translink Pvt. Ltd., Ahmedabad) VJCSIr, Mr. Nilay Shah and Mr. Brijesh Kansara.



- Sahyog-2021, an industry-institute meet was organized by Electrical Engineering Department on 29th October 2021. This meet was organized with the aim of strengthening the industry-institute linkage and coming up with ideas for bridging the gap between the two.



- An expert lecture on "Advanced Chemical Engineering Thermodynamics" by Prof. S. B. Thakore, Associate Professor, Chemical Engineering Department, VGEC was organized for ME Sem-I and BE Sem-III students on 16th December 2021 at 11:30 AM in online mode.



- Dr. Mihir V. Shah participated in the Departmental Promotion Committee (DPC) meeting of PRL, Ahmedabad as an external expert on 27th and 28th December 2021.
- Dr. Mihir V. Shah participated in the Departmental Promotion Committee (DPC) meeting of the ISRO Space Application Center, Ahmedabad as an external expert on 29th December 2021.
- An eminent speaker Dr. Devayani Tipre, Associate Professor, Department of Microbiology and Biotechnology, Gujarat University delivered an expert talk on "An Overview of Fermentation Process for Industrial Microbiology" on 13th October 2021 coordinated by Prof. B. B. Patel. 61 students attended the lecture.

- An expert lecture was arranged by the Chemical Engineering department on "Fertilizer industry scenario and future prospects" by Shri Rupesh Sarkar, Manager - Environment and Pollution Control Cell, Technical Department, IFFCO - Kalol unit, on 5th October 2021, at the Department. This expert lecture was arranged in online as well as offline mode, maintaining the covid-19 protocol. The offline lecture was attended by the students of final year and ME students and the remaining students were present through online mode.



- ITAMMA and Textile Technology Department jointly organized a series of seminars under the theme "Azadi Ka Amrit Mahotsav" in partnership with the Ministry of Heavy Industry, Government of India in November 2021. Dr. Ashwin Thakkar was invited as the Chief Guest during that session.



- Plastic Technology Department had organized a meeting with departmental alumni Mr. Digant Patel and Ms. Pooja Patel, for the discussions regarding Industrial training, visits, and placements.





- A virtual industry visit was organized for 3rd-semester students on 29/11/2021 in online mode at Rhythm Biocare, Palanpur by Chemical Engineering Department. Prof. R. R. Patel and staff member Mr. A. M. Rathod were present on the factory premises and the whole plant was displayed and explained through online mode.



- Rubber Department arranged a pedagogy meeting with Mr. Ronak Panchal, M. D. of Pravin Engineering & Works on "Sustainable ways for Recycling & Reclamation of Waste Rubber products". Prof. R. N. Desai coordinated and Prof. A. D. Bhatt, Prof. B. D. Patel, Prof. S. J. Padhiyar, Prof. G. G. Bhatt, Prof. R. Y. Modan and Prof. P. N. Chavda attended the meeting through Google Meet on 22nd October 2021.

- SARK EPC Projects Pvt. Ltd. is specialized in Cathodic Protection System in the Oil and Gas Industries and covers corrosion protection of marine, petrochemical plant piping and cross country pipelines. Electrical Engineering Department has signed MoU on 22/12/2021.



- Daxit Soni, Kelvin Gajera, Sarthak Bhavsar, Dhruv Panchal, Shyam Chauhan and Saumya Rathod students of Rubber Technology actively participated in the project "Rubberized Pavers" in Connect Startup dots - a mega exhibition under the mentorship of Prof. Gnanu Bhatt during 1st and 2nd December 2021 at L. D. College of Engineering.
- Prof. R. N. Desai arranged an Online session on "Increasing opportunity in the field of Pharmaceutical Rubber products manufacturing" with Mr. Alpesh Gandhi, M. D., Ami Polymers on 29th December 2021.

- A webinar on "The role of soft skills in achieving your dreams" was organized by Rubber Technology Department, L. D. College of Engineering under the aegis of the Institute of Engineers (India) Students' chapter of Rubber Technology on 28th October 2021 by Ms. Pratiksha Awasthi, lieutenant, Indian Navy Officer.
- Rubber department arranged a pedagogy meeting with Mr. Binu, Technical Head, CEAT Tyres on "Novel Development in Automobile Tyres". Prof. R. N. Desai coordinated and Prof. A. D. Bhatt, Prof. B. D. Patel, Prof. S. J. Padhiyar, Prof. G. G. Bhatt, Prof. R. Y. Modan and Prof. P. N. Chavda attended the meeting through Google Meet on 21st December 2021.
- Rubber department arranged a pedagogy meeting with Mr. Atul Shah, M. D. of Pioneer Industries on "Global scenario of Natural & Synthetic Rubber Industries". Prof. R. N. Desai coordinated and Prof. A. D. Bhatt, Prof. B. D. Patel, Prof. S. J. Padhiyar, Prof. G. G. Bhatt, Prof. R. Y. Modan and Prof. P. N. Chavda attended the meeting through Google Meet on 29th November 2021.
- Prof. B. D. Patel arranged an online session on "Current trends and perspectives in tyre industry" with Mr. Birju Unadkat, R&D, JK Tyres on 16th December 2021.
- Prof. S. J. Padhiyar arranged an online session on "Rubber Tank Lining" delivered by Mr. Bhadresh Patel, CEO, UNICON Industrial Lining on 22nd December 2021.



# RESEARCH & CONSULTANCY

(EX. SSIP/SOIC/PATENT FILLED ETC.)

- 4 SSIP Projects are going on in the Chemical Department with a total of Rs 412000/- Lac grant. The department is conducting an environmental audit of three companies.
- Prof. Sheetal Pandya's research proposal on "Fabrication and testing of integral Alurninium - based compact heat exchanger" with the principal collaborator - Dr. Sandip Kumar Saha (Mech. Dept. IIT Bombay) has been accepted by CTE for sanctioned grant of Rs. 2 Lakh under STEM.
- Patent on "Biodiesel Preparation Device and Method Using CO Doped ZnO Catalyst" with Application Number-202121046521, applicant (L. D College of Engineering, Vachan Suthar, Hiral Pandya, Samidha Banka, and Dr. Sachin Parikh)/patentee, has been published in Journal Number-44/2021, on 29th October 2021 by Indian Patent Office.
- Prof. P. N. Chavda is currently doing research on "Organic Antimicrobial Agents".
- Dr. Bhavin S. Sedani, Dr. N. A. Kotak along with E. C. students, Nakum Hasmukh Govindbhai and Solanki Jigar Balewadi, filed a PATENT titled "OPTIMIZED ENERGETIC SOLAR DRYER" and is granted for 20 years by Patent Office India. (Date of patent grant 15/11/2021)
- Dr. Bhavin S. Sedani, Dr. N. A. Kotak along with E. C. students, Nakum Hasmukh Govindbhai and Domadiya Yash Kamleshbhai filed a PATENT titled "LASER CONTROLLED INFUSION MONITORING UNIT FOR SMART HEALTH CARE Date SYSTEM" and is granted for 20 years by Patent Office India. (Date of patent grant 20/10/2021)
- Prof. Gnanu Bhatt, Dhruv Patel, Shyam Chauhan and Daxit soni from Rubber Technology department successfully published a patent on "Method for detecting density of open cellular hydrophilic porous material without porosity" on 22nd October 2021.
- Prof. A. D. Bhatt is doing research on "Effect of Ionic Liquid as a rubber additive".

- Design PATENT for "BIOGUARD M20" (UV Disinfectant Chamber) is accepted and published by Patent office India. PoC of this patent is "BIOGUARD M20" granted under SSIP Cell - LDCE.

Patentee:

1. Dr. Manish Thakker (I.C.)
2. Prof. Mihir Vasavada (Electrical)
3. Milan Desai (I.C.)

The screenshot shows the 'Design Application Status' page on the Intellectual Property India portal. The page header includes the IP India logo, the Government of India emblem, and the text 'Controller General of Patents, Designs and Trademarks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry'. The 'Design Application Details' section lists: Application Number: 306956-001, Cbr Number: 23800, Cbr Date: 29/12/2020 16:13:52, and Applicant Name: 1. THAKKER MANISH TARACHANDRABHAI, 2. VASAVADA MIHIR RAMESHBHAI, 3. DESAI MILAN BALDEYBHAI. The 'Design Application Status' section shows: Application Status: Design Accepted and Published, Journal No is 49/2021 and Journal Date is 03/12/2021. A 'Back' button is visible. A disclaimer at the bottom states: 'Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230. The information under "Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case...





# STUDENTS' ACHIEVEMENTS

- Virti Shah, NSS Volunteer from Environment Engineering Department is selected in the Republic Day 2022 contingent. She will represent Gujarat at the National level.
- Mr. Rishabh Pal, a final year student of Chemical Engineering Department, was selected in BARC as TSO.
- A paper on "Forward Osmosis applications in the concentration of delicate/sensitive compounds" authored by Vishal Kuril, ME student and Dr. S. M. Dutta was selected for the oral presentation at CHEMCON 2021, held at CSIR-IMMT, Bhubaneswar from 27th to 30th December 2021.
- A paper on "Removal of Phenolic compounds from wastewater" authored by Rutvik Savani, ME student and Dr. P. H. Rana had been selected for the poster presentation at CHEMCON 2021, held at CSIR-IMMT, Bhubaneswar from 27th to 30th December 2021.
- Nine of our students namely, Jainam Joshi, Drashti Lejri, Sahil Sojitra, Yagnik Vankar, Rushabh Modi, Aakrut Patel, Kaushal Patel, Pratham Prajapati and Yogesh Solanki had been selected in the Reliance Industries Limited through the campus placement.
- Jay K. Panchal, Jaysinh R. Dabhi and Mrunalkumar D. Chaudhari (Mechanical Department) published a paper titled "Streamlined Method to Design a Mini Solar Updraft Tower for Educational Purposes" in the International Research Journal of Engineering and Technology (IRJET) Volume 8, Issue 12, S.No: 188, December 2021.
- Jheel Makhijani, a student from the EC department, semester - 3, was the first runner-up in the "Nakshatra" - a blog writing competition held on 10th October 2021.

- Chirag Chauhan of sem 6 EC was selected as a fellow in the fellowship program organized by "The Machine Learning company",
  - Event name: The Machine Learning Company Fellowship
  - Event Duration: 1st November-2021 to 31st December-2021
  - Project Name: Job and Resume Recommendation System
- Daxit Soni and Yogesh Bagul, students of BE 7th semester, Rubber Technology Department got placed in CEAT tyres with a well-appreciated package.
- Jaymeet Sisodiya, student of BE 5th Semester, Rubber Technology Department, participated in a technical quiz organized as a sub-event of INN-O-SPARK, a state-level event organized on 29th October 2021 by the Innovator Club, LDCE.
- Jaymeet Sisodiya, student of BE 5th Semester, Rubber Technology, participated in a general quiz organized as a sub-event of INN-O-SPARK, a state-level event organized on 28th October 2021 by the Innovator Club, LDCE.



# FACULTY ACHIEVEMENTS

- Major Dr. C. S. Sanghvi delivered two important lectures on "Importance of Experiments in Earthquake Engineering" during ATAL FDP on New approaches in Geo-Technical Engineering by IPS Academy, Indore on 9th December 2021.
- Dr. Hiteishi Diwanji, from the Information Technology Department, served as a judge at All India ACM-W Hackathon-2021. The Host Institute was Manipal University, Jaipur. 4 teams were evaluated in an online jury round of hackathon and ideas were based on health, fitness, pollution, blockchain on 13th November 2021.
- Prof. R. J. Jani has presented an open seminar on "Experimental investigation on life cycle analysis of single cylinder SI engine fuelled with hydroxygen as an additive" at Gujarat Technological University on 2nd December 2021.
- Major Dr. C. S. Sanghvi delivered a lecture on "Earthquake resistant design practices: a case study" during ATAL FDP on "EARTHQUAKE RESISTANT DESIGN AND CONSTRUCTION PRACTICES" by Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal on 30th November 2021.
- Prof. Tushar Raval has significantly contributed to the launching process of SSIP 2.0. He was felicitated by the Honorable chief minister of Gujarat State Shri. Bhupendrabhai Patel



- Ms. R. N. Shukla delivered an expert lecture on "Curve & Junction Improvement" organized by Staff Training College, Roads & Building Department at Nirman Bhavan, Gandhinagar on 21st October 2021. (12:15 PM to 1:45 PM).
- Ms. R. N. Shukla delivered an expert lecture on "Sustainable Development in Urban Transport" during ATAL FDP (Online) "Smart & Sustainable Infrastructure Development for New India" (20-24 Dec 2021, 1 Week), organized by BVM Engineering College, V. V. Nagar on 23rd December 2021. (Session-3 - 3:00 PM to 4:30 PM).
- Ms. R. N. Shukla delivered an expert lecture on "Road Safety and Introduction to RSA" organized by Staff Training College, Roads & Building Department, Nirman Bhavan, Gandhinagar on 21st October 2021 (10:30 AM to 12:00 PM).
- Dr. K. G. Dave had worked as an expert committee member for internal promotion at PRL, Ahmedabad during the month of December 2021.
- Prof. Rajul P. Bhatt, from Chemical Engineering Department, submitted her Ph.D. thesis which had been accepted and declared eligible for the award of the degree of "Doctor of Philosophy" (Ph.D.) by Gujarat Technological University, Ahmedabad.
- Dr. P. J. Gundaliya delivered an expert lecture on "Applications of Genetic Algorithm and Cellular Automata in Civil Engineering" on 23rd November 2021 for STTP - "Advances in Soft Computing Techniques in Civil Engineering – (ASCTCE - 2021)" organized by Civil Engineering Department, Dr. S. & S. S. Ghandhy Government Engineering College, Surat through virtual mode.
- Prof. Jitisha Kamble along with Prof. Mihir Vasavda coordinated a Seminar on "Innovation leads to Startup" with eminent speaker Ms. Arpita Doshi, Founder, Nutrient Dynamic Food, under the IIC Banner on 27th October 2021.
- Dr. Ashwin Thakkar attended the Board of Studies meeting of Shri Vaishnav Vidyapeeth Vishwavidyalaya on 18th October 2021.



- The Government of Gujarat has announced an umbrella distribution scheme: "Gujarat Sarkar no Chhaydo" to street vegetable grocers. The umbrellas were designed by the department of mechanical engineering. An Inspection committee, headed by Dr. S. S. Pathan, had been taking up the responsibility of consultancy and testing work of 50,000 umbrellas for M/s Gujarat Agro Industries Corporation Ltd., Gandhinagar. Dr. B. K. Patel, Dr. D. R. Shah, Dr. U. A. Patel and Dr. N. H. Pancholi have extended their cooperation and services to complete the onsite inspection of 18000 umbrellas till date, from November 16, 2021.
- Dr. M. D. Chaudhari delivered an expert talk at Centre of Excellence - Welding, L. D. College of Engineering on 18th October 2021 on the topic of "Welding Metallurgy and Heat Treatment" as a part of 10 days program "Fundamentals of Welding" organized for students.
- Prof. Swati Saraswat delivered an expert lecture at SVIT Vasad in a Gujcost sponsored Online National level STTP on "Advances in Refrigeration and Air-conditioning" on the topic "Air Refrigeration Systems and its recent developments" on 26/10/2021.
- Prof. Swati Saraswat delivered an online Technical Talk for Ishrae Mumbai chapter and society partner Panasonic on "Air Refrigeration systems" on 23/10/2021.
- Prof. Swati Patel, from the Information Technology Department, delivered an Expert Lecture on "Queries in MY-SQL" at Computer Engineering Department, Govt. Polytechnic Gandhinagar on 27th October 2021 via M. S. Teams.
- Prof. Ronak R. Patel, from Chemical Engineering Department, received his "Doctor of Philosophy" (Ph.D.) degree from Nirma University on 17th December 2021.

# COMMUNITY ENGAGEMENT

(NSS, NCC, Clubs)

## NSS ACTIVITIES

Orientation, 2k21  
(October 19, 2021)

- NSS Volunteers introduced various events and programs conducted by NSS LDCE in their Orientation program. The Volunteers hosting the event shared some videos and photographs of the events which depicted the joy of the participants as well as the volunteers.

Awareness program for  
Thalassemia  
(November 20, 2021)

- NSS LDCE, in collaboration with the Rotary Club Ahmedabad Metro, organized a Webinar "Awareness about Thalassemia Disease" among the youth with the aim to help as many people as they can. The webinar was conducted by the MD Pediatrics Dr. Maulik Bakshi on the online platform M. S. Teams.

- The Platinum Jubilee was celebrated by the institute, calling the female alumni of the college for a brainstorming session. The aim of the event was to improve the institute for the better convenience of the female students as well as staff members.

Alumni meet for  
Platinum Jubilee  
(November 26,  
2021)





## Startup Fest (December 1 & 2, 2021)

- NSS Volunteers successfully coordinated and managed the Startup Fest, organized by the Ahmedabad Chamber of Commerce in the Aryabhata Hall. In this meet, the startups having social impact pitched for the funding.



## Sports Meet, 2k21 (December 8 & 9, 2021)

- Volunteers of NSS LDCE organized the Sports Meet for all the Sports Enthusiasts of the college. 11 games like Gully Cricket, Badminton, Kho-kho, Tug of War, etc. were organized to help the students relive their childhood and be familiar with the college.





# Joy of Giving 2021 (December 25 - 30, 2021)

- NSS LDCE organized "Joy of Giving" with the motive to bring a smile to the faces of the people that live on footpaths and can barely fulfill their basic requirements. A donation drive was carried out for the same from 21st December to 24th December 2021 across the campus where 3500 clothes, blankets, and footwear were collected. These materials were further donated among the people living on the footpath in the areas like Panjarapol, Shivranajani, Jhansi ni Rani, Thaltej, Vastrapur, Gurukul and many others.

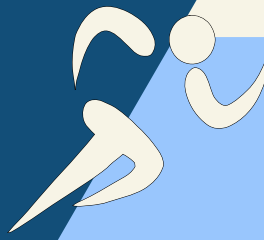


- Students of the electrical department had participated in "Joy of Giving" organized by NSS on 25/12/2021.
- Raj Rajpara, a student of Rubber Technology BE semester 7 participated in the combined annual training camp of the NCC from 28th September to 6th October 2021.

- Along with these events, Volunteers of NSS LDCE had organized the interview round for the Vibrant Gujarat Event.



# SPORTS



- Parv Parikh of Semester 3, Won Gold in a team and an individual event for GTU Table Tennis Tournament held on 17/11/2021 at GTU Sports Event 2021 held at SVIT Vasad.
- Environmental engineering 3rdsem UG student namely Mayuri Tank (enrollment no- 2000280113043) participated in state level Yogasana competition held at Gujarat Power Engineering and Research Institute (GPRI) on 22nd November 2021 and secured 4th Rank. Now, she will participate in AIU Yogasana Tournament.
- Environmental Engineering student namely Aghara Parthav Tusharbhay (enrollment no 180280113001) has participated in 41st Gujarat State Roller Skating Championship, which was held at DPS BOPAL in between 12th to 16th November and was awarded with 2 medals (i.e. 1 Gold in Road 500 meter category & 1 silver in 500+D Rink category) and selected for National Championship which will be held in Delhi from 10th December to 22nd December.





- Shailesh Parmar of Semester 7 represented Team LDCE in the chess tournament GTU at the zonal level and ranked 1st in the TEAM BOYS category for GTU Zonal Sports Event held at GTU Chandkheda.
- Mauli of Semester 3, represented GTU at National Level Basketball Competition (Women's Category) held at Indore in December 2021.
- Gondhaniya Sudhirbhai, student of Rubber Technology BE semester 6, participated in "FIT INDIA", a National level Quiz on "SPORTS - Latest Current Affairs" organized by Physical Education Foundation of India, Gujarat Chapter and achieved a 96% result.
- Chhotal Santosh, a student of Rubber Technology BE semester 7, participated in a 100 m Race at "SPORTS MEET 2K21", organized by NSS LDCE on 8th and 9th December 2021.

# PAPERS PRESENTED/PUBLISHED

- Dr. Manish V. Shah and Tanvi Thakkar participated and presented a research paper entitled "Effect of reservoir desalting material on Manning's coefficient using suction characterization and drying-wetting cycles" at the 26th International Conference on Hydraulics, Water Resources and Coastal Engineering (HYDRO 2021), organized by Department of Civil Engineering, SVNIT Surat and ISH, Pune during 23rd-25th December 2021. The research paper publication will be Springer Nature later on.
- Dr. Manish V. Shah, Rutvik Kalthiya, Jay Dave published a research paper entitled "Model Study on Single Pile Subjected To Axial and Inclined Load Embedded In Contaminated Soil" in UGC Care (63975) approved 'Journal of Emerging Technologies and Innovative Research', Vol.8, Issue 12, pp.38-47, ISSN 2349-5162.
- Ms. R. N. Shukla and Harsh Mer have published a Chapter titled "Calibrating and Validation of Microsimulation Model for Indian Heterogeneous Traffic Flow-A Case Study" in Springer December 2021.
- Dr. Manish V. Shah, Kunjan Patel and Prof. U. K. Patel published a research paper entitled "Synthesis of Geopolymer & its Efficacy as a Stabilizer of Expansive Soil" in UGC Care (63975) approved 'Journal of Emerging Technologies and Innovative Research', Vol.8, Issue 12, pp.479 - 487, ISSN 2349-5162.
- Dr. Manish V. Shah and Abhijit Brahmabhatt published a research paper titled "Feasibility Study on Municipal Solid Waste (MSW) as Sustainable Engineering Material Using Suction Characteristics" in the Book titled 'Sustainable Cities and Resilience' under the series titled 'Lecture Notes in Civil Engineering' as a part of Select Proceedings of VCDRR 2021 published by Springer Singapore, <https://doi.org/10.1007/978-981-16-5543-2>, ISBN: 978-981-16-5542-5, E ISSN: 2366-2565, pp.289-298
- Dr. Hiteishi Diwanji along with Ph.D. scholar Komal Anadkat published a research paper on the title "Effect of Activation function in speech emotion recognition on the Ravdess Dataset" in International Journal (Reliability: Theory and Applications) pp. 228-236.

- Prof. Manojkumar B. Patel published a research paper on the title "Plant Diseases Detection and Classification based on leaf Images" using Deep Learning in the international journal UGC CARE - International Journal of Information Technology and Electrical Engineering volume 10, issue 5, pp. 18-26, ISSN: - 2306-708X in October 2021.
- Prof. M. C. Parikh along with ME scholar Ravi Pansuriya published a research paper on "Fake Review Detection Using Linguistic Cues and Hybrid Learning" in a UGC CARE journal - Journal of Information and Computational Science volume 10, issue 11, pp. 18-26, ISSN: -1548-7741 in October 2021.
- Prof. A. C. Patel along with ME scholar Shah Pranav Pardeep published a research paper on the title "A Comprehensive Study and Detailed Review On Hate Speech Classification: A Systematic Analysis" in the international journal IEEE Conference on Advances in Computing, Communication and Control (ICAC3 2021) on 3rd and 4th December 2021.
- Dr. P. J. Gundaliya and Dipika Gupta published a paper titled "Experimental analysis of Effect of Lateral Friction on Horizontal Curve for Highways" in Compliance Engineering Journal, ISSN No: 0898-3577, Volume 12 Issue 11, Page no – 135-144, December 2021. DOI:16.10089.CEJ.2021.V12I11.285311.3822
- Ms. R. N. Shukla and Kruti Patel have presented a paper titled "Gender Inequality :R Calibrating and Validation of Microsimulation Model for Indian Heterogeneous Traffic Flow - A Case Study resistance to Women in Armed Forces" at the International Conference on "Sustainable Development Goals and Gender Perspective" organized by SVNIT, Surat on 25th and 26th October 2021.
- Ms. R. N. Shukla and Stuti Parmar have presented a paper titled "Role of Education in Framing Gender Equality" at the International Conference on "Sustainable Development Goals and Gender Perspective" organized by SVNIT, Surat on 25th and 26th October 2021.



- Ms. R. N. Shukla and Dudhat Helly have presented a paper titled "Study of Attitudes and Beliefs with Regards to LGBTQ+Community" at the International Conference on "Sustainable Development Goals and Gender Perspective" organized by SVNIT, Surat on 25th and 26th October 2021.
- Ms. R. N. Shukla & Krushangi Tandel have presented a paper titled "Women as Front Line Warrior during COVID-19 Pandemic" at International Conference on "Sustainable Development Goals and Gender Perspective" organized by SVNIT, Surat on 25th and 26th October 2021.
- Bina B. Patel has published a research paper titled "Hydrodynamics of hybrid upflow anaerobic sludge blanket reactors using tracer studies" in Environmental Challenges, Volume 5, Issue – October 2021, 100358. <https://doi.org/10.1016/j.envc.2021.100358> (SCOPUS indexed journal).
- Prof. Sanjaykumar H. Zala, Dr. A. V. Gohil, Dr. K. G. Dave, Dr. V. B. Patel published a technical paper titled "Lean Six Sigma Methodology for Automobile Industries to Enhance Quality and Cost Effectiveness" in Journal of Design Engineering, Vol 2021, Issue 9, pp 7816 - 7831.
- Dr. Bhavin S. Sedani and other two authors have published a paper titled "Performance analysis of massive multiple input multiple output for high speed railway" in International Journal of Electrical and Computer Engineering, Scopus Indexed journal, Volume 11, Number 6, ISSN: 2088-8708, November/December 2021.
- Dr. Bhavin S. Sedani and Dr. Nirali A. Kotak with the other two authors have published a paper titled "Modeling, Simulation of Efficient DVB-T System with MIMO Technique" in Book Chapter. Book Title: Contemporary Advances in Science and Technology, ISBN: 9798885210232.
- Daxit Soni, a student of Rubber Technology BE 7th semester and Prof. Gnanu Bhatt presented a paper titled "A Review on Flame Retardants Used in Polyurethane Foam" at International Conference on Technologies for Smart Green Connected Society (ICTSG-I) on 29th and 30th November 2021.

# PROFESSIONAL DEVELOPMENT

(STTP/FDP/Workshop/Conference etc. attended only)

<u>Sr. No.</u>	<u>Title</u>	<u>Name of Faculty</u>	<u>Department</u>	<u>Organized by</u>	<u>Duration</u>
1.	Induction Phase II	Prof. Shalini R. Singh	Applied Mechanics	NITTR BHOPAL	15/11/2021 to 26/11/2021
2.	Deterioration, Damage Assessment and Strengthening of Structures (DDASS-2021)	Prof. Poonam I. Modi		Department of Civil Engineering, SVNIT	27/12/2021 to 31/12/2021
3.	Alternate Fuels	Prof. M. A. Shaikh, Prof. P. D. Patel, Prof. S. N. Patel	Automobile	GEC MODASA and AICTE Training And Learning (ATAL) Academy	22/11/2021 to 26/11/2021
4.	Robotics and Automation	Prof. P. D. Patel, Prof. S. N. Patel		GEC MODASA and AICTE Training And Learning(ATAL) Academy	20/12/2021 to 24/12/2021
5.	Train the Trainer Program- Automotive Systems and Autotronics	Prof. R. J. Choube		IACE- Gandhinagar	25/10/2021 to 29/10/2021
6.	Advanced technology to bridge the gap between medical science and engineering for the benefit of mankind	Prof. U. V. Pancholi	Biomedical Engineering	JIS College of Engineering, NAAC-A graded Autonomous Institution in Kalyani, West Bengal	23/08/2021 to 28/08/2021
7.	Teaching without Teaching (Faculty Development Programme - 2021)	Prof. U. V. Pancholi		GTU in collaboration with IPDC	21st of October 2021
8.	Induction Phase – II	Prof. B. H. Mehta		NITTR Bhopal	27/09/2021 to 08/10/2021
9.	Module-1 Orientation towards Technical Education and Curriculum Aspects of NITTT	Prof. B. H. Mehta, Prof. H. B. Patel		NITTT	September 2021

<u>Sr. No.</u>	<u>Title</u>	<u>Name of Faculty</u>	<u>Department</u>	<u>Organized by</u>	<u>Duration</u>
10.	Research for sustainable progress	R. P. Bhatt S. H. Bhatt	Chemical Engineering	Chemical Department LDCE	16/12/2021 to 22/12/2021
11.	Flow characteristics and turbulence statistics in alluvial channels	Dr. Rajesh Jain, Prof. R. M. Jadav, Prof. Sudhanshu Dixit, Prof. Utkarsh Nigam	Civil Engineering	Civil Department ATAL, AICTE	06/12/2021 to 10/12/2021
12.	Teaching Without Teaching- Integrated Personality Development Course (FDP)	Ms. R. N. Shukla		GTU and BAPS APC, V. V. Nagar	18/10/2021
13.	Aspiring Safer and Healthier Workplaces (Symposium)	Ms. R .N. Shukla		Internal Complaint Committee, Women Development Cell, SVNIT, Surat	22/10/2021 to 23/10/2021
14.	Sustainable Development Goals and Gender Perspective (International Conference)	Ms. R. N. Shukla		SVNIT, Surat	25/10/2021 to 26/10/2021
15.	Soft Skill	Prof. H. B. Pandya Prof. A. V. Shah	Computer Engineering	Swayam MOOC	26/07/2021 to 15/10/2021
16.	Switching Circuits and Logic Design	D. H. Buch		Swayam MOOC	26/07/2021 to 15/10/2021
17.	Introduction to Machine Learning - IITM	D. H. Buch		Swayam MOOC	26/07/2021 to 15/10/2021
18.	IIOT 4.0 – IITK	R. Jaiswal		Swayam MOOC	27/01/2020 to 17/04/2020
19.	Induction Phase-II	Pragnesh Patel Maitrik Shah		NITTTR, Bhopal	20/09/2021 to 01/10/2021
20.	Cloud Computing and Big Data Applications	Hetal A. Joshiara		GEC, Rajkot	25/10/2021 to 29/09/2021



<u>Sr. No.</u>	<u>Title</u>	<u>Name of Faculty</u>	<u>Department</u>	<u>Organized by</u>	<u>Duration</u>
21.	The Joy of Computing using Python	Dr. P. J. Brahmbhatt	Electronics & Communication Engineering	NPTEL MOOC	July-October-2021
22.	The Joy of Computing using Python	Prof. P. J. Muliya		NPTEL MOOC	July-October-2021
23.	The Joy of Computing using Python	Prof. S. K. Gonsai		NPTEL MOOC	July-October-2021
24.	Induction Program Phase-II	Prof. C. J. Patel	Environmental Engineering	NITTTR, Bhopal	27/09/2021 to 08/10/2021
25.	Municipal Solid Waste Management	Prof. A. S. Kuhikar, Prof. Y. S. Rami		IIT Guwahati	26/7/2021 to 15/10/2021
26.	Air Pollution and Climate Change	Prof. Y. S. Rami		SVNIT, Surat	20/09/2021 to 24/09/2021
27.	Developing Soft Skills and Personality	Prof. M. J. Pandya, Prof. D. P. Shah, Prof. Y. M. Gajera, Prof. C. J. Patel, Prof. V. H. Shukla		IIT, Roorkee	23/08/2021 to 15/10/2021
28.	Advanced Wastewater Treatment Technologies	Prof. D. P. Shah, Prof. Y. M. Gajera		GEC, Modasa	23/08/2021 to 27/08/2021
29.	"Teaching without Teaching"	V. B. Thakkar	Information Technology	BAPS, Shahibaug, Ahmedabad	21/10/2021
30.	Wok Life Balance and Stress Management	B. B. Panchal		Online (NPTEL)	06/09/2021 to 10/09/2021
31.	"Programming in Java"	P. R. Patel M. B. Patel A. C. Patel		Online (NPTEL)	26/07/2021 to 15/10/2021
32.	Internet on Things and its Applications	S. A. Solanki		ONLINE (ATAL)	04/10/2021 to 08/10/2021
33.	DEEP LEARNING by IIIT, Vadodara	J. B. Chavda		ONLINE (ATAL)	13/12/2021 to 17/12/2021
34.	Robotics and Automation	Vandana Patel, Dr. Ankit K. Shah	Instrumentation & Control	GEC, Modasa	20/12/2021 to 24/12/2021

<u>Sr. No.</u>	<u>Title</u>	<u>Name of Faculty</u>	<u>Department</u>	<u>Organized by</u>	<u>Duration</u>
35.	Engineering Metrology	Prof. A. G. Momin, Prof. H. P. Patel	Mechanical Engineering	NPTEL_IIT Kanpur MOOC	16/07/2021 to 24/10/2021
36.	Alternative Fuels	Prof. Mitul M. Makwana, Prof. G. N. Sutaria, Prof. A. G. Momin, Prof. K. P. Hirpara		GEC Modasa ATAL_ AICTE	22/11/2021 to 26/11/2021
37.	Current Field Practices for Energy and Utility Systems	Prof. P. V. Jotaniya, Prof. G. N. Sutaria		GEC Dahod ATAL_ AICTE	06/12/2021 to 10/12/2021
38.	Induction Phase II	Dr. M. D. Chaudhari		NITTTR Bhopal (Online)	15/11/2021 to 26/11/2021
39.	Robotics and Automation	Prof. Mitul M. Makwana, Prof. H. P. Patel, Dr. B. K. Patel, Dr. D. R. Shah, Prof. G. N. Sutaria, Prof. A G Momin, Dr. M. D. Chaudhari		GEC Modasa ATAL_ AICTE	20/12/2021 to 24/12/2021
40.	Use of Innovative Teaching Methods in Science	Prof. M. K. Vyas		NITTTR Bhopal (Online)	27/12/2021 to 31/12/2021
41.	Webinar on “Stress management”	Prof. Hetal C. Shah, Prof. Stuti R. Shah	Plastic Technology	LDCE SSIP Cell	12/10/2021
42.	One day FDP on “Teaching without Teaching”	Prof. Stuti R. Shah		GTU in collaboration with IPDC	21/10/2021
43.	Online seminar on “Advances in Polymer Nanocomposites”	Prof. Kintu P. Jain, Prof. Hetal C. Shah, Prof. Stuti R. Shah		IIT Roorkee and American Chemical Society (ACS)	18/10/2021 to 19/10/2021
44.	Online ISTE & AICTE , DTE approved 1 week FDP on “Research for Sustainable Progress”	Prof. Kintu P. Jain, Prof. Stuti R. Shah		Chemical Engineering Department, LDCE	16/12/2021 to 22/12/2021

<u>Sr. No.</u>	<u>Title</u>	<u>Name of Faculty</u>	<u>Department</u>	<u>Organized by</u>	<u>Duration</u>
45.	Atal FDP on “Alternative fuels”	Prof. S. J. Padhiyar	Rubber Technology	GEC, Modasa, (Online platform)	22/11/2021 to 26/11/2021
46.	FDP on “Research for sustainable progress”	Dr. R. N. Desai, Prof. B. D. Patel		Chemical Engineering department, LDCE, (Online platform)	16/12/21 to 22/12/21
47.	FDP on “Robotics and automation”	Prof. S. J. Padhiyar		GEC, Modasa, (Online platform)	20/12/2021 to 24/12/2021
48.	FDP on “Teaching without teaching”	Prof. R. Y. Modan		GTU and IPDC, (Online platform)	21/10/2021
49.	Technical Textiles	Dr. D. V. Bihola, Prof. P. M. Mistry, Prof. H. J. Jaiswal, Prof. S. K. Parmar, Prof. K. J. Ponda	Textile Engineering	MOOC	July-October 2021



# M. E. DISSERTATION

## Applied Mechanics Department

<u>Sr. No.</u>	<u>Name of Student</u>	<u>Title</u>	<u>Name of Guide</u>
1.	Kalthiya Rutvik	Model Study On Single Pile Subjected To Cyclic Vertical & Inclined Load Embedded In Contaminated Soil	Prof. U. K. Patel Dr. M. V. Shah
2.	Patel Kunjan	Effect Of Metakaolin, Sodium Bentonite & Ceramic Waste Based Geopolymer On Strength And Swell Properties Of Expansive Soil	Prof. U. K. Patel Dr. M. V. Shah
3.	Baranda Milee	Influence Of Bamboo Reinforcement On Compressibility Characteristics Of Soft Clay Using Model Consolidation Test	Prof. A. J. Shah
4.	Sathwara Heli	Experimental Study On Settlement Behaviour of Closely Spaced Rectangular Footings Resting On Geogrid Reinforced Silty Sand	Prof. P. J. Mehta

## E. C. Department

<u>Sr. No.</u>	<u>Name of Student</u>	<u>Title</u>	<u>Name of Guide</u>
1.	Malaviya Palak Jaysukhbhai	Five Stage RISC-V processor Design	Prof. Kirit V. Patel
2.	Pathan Nilofar Abdul Gani	AI Computer Vision Based Handwritten Ladle Number Recognition	Prof. S. K. Gonsai
3.	Suthar Aartiben Dhansukhbhai	Analysis of different parameters of Agriculture areas using Cloud computing and image processing	Prof. (Dr.) A. J. Kshatriya
4.	Amin Mansi Mukeshbhai	Dual-band Microstrip Patch Antenna With U-shaped Slot.	Prof. M. C. Sahoo
5.	Katariya Archana Pravinbhai	ASIC Flow development for lower geometry SoC blocks	Prof. H. B. Tank
6.	Modi Priyank Bhupendrakumar	IoT-Enabled Real Time Heart Diseases Monitoring System using Edge Computing	Prof. (Dr.) Sanjay Prajapati

<u>Sr. No.</u>	<u>Name of Student</u>	<u>Title</u>	<u>Name of Guide</u>
7.	Barot Jilkumar Laljibhai	ASIC flow development for lower geometry networking blocks	Prof. (Dr.) Sanjay Prajapati
8.	Bhadrecha Hardik Mahendra	Design, Simulation and Analysis of a 5G System Model	Prof. (Dr.) Bhavin Sedani
9.	Nambiar Keerthana Vijayan	ASIC Flow Development for Timing and Area Improvement of Edge Routers	Prof. (Dr.) M. V. Shah
10.	Pathak Nidhikumari Prakashchandra	System verilog based development of Verification IP for AXI-3.0 protocol	Prof. K. G. Vaghela
11.	Kartheek Ikkurthi	Cloud streaming module to control streaming from IOT Device over AWS cloud.	Prof. S. K. Gonsai
12.	Choudhary Dhanraj Ramaram	ASIC flow development for lower geometry Ethernet Switch	Prof. (Dr.) P. P. Prajapati
13.	Ishakha R Prajapati	UVM based VIP Development of AXI4-Lite Protocol	Prof. K. G. Vaghela
14.	Parul Shashikant Tapasvi	Efficient floorplanning techniques for better QOR in lower technology node design	Prof. (Dr.) P. J. Brahmbhatt
15.	Rathava Rekhaben Navalsinh	Design of Area Efficient and Highly Reliable RHBD 10T Memory Cell for Aerospace Applications	Prof. H. B. Tank
16.	Nilamben Danabhai Der	Implementation of various ECOs considering challenges in 16nm and below nodes	Prof. (Dr.) M. V. Shah
17.	Parmar Jayantkumar Kanubhai	Design and analysis of a microstrip patch antenna for Q - band satellite communication and radio astronomy studies.	Prof. (Dr.) N. A. Kotak)
18.	Parmar Kusumben Manubhai	Defining Quality checks and Procedure to reduce Iteration in Physical Design flow	Prof. (Dr.) P. P. Prajapati
19.	Kachhatiya Divyesh Dayalal	Placement optimization techniques for turned around time	Prof. P. J. Muliya
20.	Sankhavra Riddhi Pravinbhai	ASIC flow development for timing and area improvement of high end networking chip	Prof. A. B. Upadhyay

<u>Sr. No.</u>	<u>Name of Student</u>	<u>Title</u>	<u>Name of Guide</u>
21.	Prajapati Pratik Girishbhai	Microstart GSM based agriculture motor/ pump and advance protector	Prof. (Dr.) A. J. Kshatriya
22.	Surti Divyeshkumar Chhaganbhai	Blind People Reading System	Prof. Suresh Bharwad
23.	Jaykumar Rameshchandra Paria	Development of sensor fusion for Advanced driver assistance systems	Prof. (Dr.) Sanjay Prajapati
24.	Shah Himil Rajanikant	Real Time Object Colour Detection	Prof. A. B. Upadhyay
25.	Bhavsar Preksha Hitendrakumar	Real Time Analysis for Monitoring and Tracking Human Centric By Using IOT and SN-MQTT Protocol	Prof. D. N. Patel
26.	Mistri Priyanshi Kamleshbhai	Implementation of Netlist to GDSII flow on one 7nm/12nm/12nm FinFET technology design and solve challenges encountered compared to CMOS 180/120nm technology.	Prof. P. J. Muliya
27.	Rajpurohit Chandansingh Dineshsingh	Enhanced Spread Spectrum ALOHA Demodulator (E-SSA)	Prof. (Dr.) P. J. Brahmbhatt
28.	Ramiro Da Piedade Felix Chitanga (ICCR)	IoT Based Hazard Monitoring System and Management for Oil and Gas Industry	Prof. (Dr.) N. A. Kotak)
29.	Joshi Disha Gaurishankar	Design and Development of On-orbit Reconfigurable Beam Antenna using Metasurface Technology for Satellite Communication	Prof. (Dr.) Bhavin Sedani
30.	Patel Parthkumar Kanubhai	Radio frequency microwave filter design in GSM frequency and IF to RF CONVERTER	Prof. Hitesh Desai
31.	Viditkumar Himanshukumar Modi	Design Broadband Dual Polarized Space-Fed Antenna Arrays for MIMO application.	Prof. (Dr.) Bhavin Sedani



# DESIGN TEAM

*Ravikumar Parmar*

[Computer Semester-6]

*Dev Desai*

[Computer Semester-3]

*Kushang Haria*

[Computer Semester-3]

*Ujwal Gupta*

[Computer Semester-3]