

TECH PULSE

The Quarterly Newsletter by L. D. College of Engineering



A SNEAK PEEK INSIDE THIS ISSUE:

- AROUND THE INSTITUTE
- MESSAGE FROM PRINCIPAL
- MAJOT EVENTS
- INDUSTRY-INSTITUTE INTERACTION
- RESEARCH AND CONSULTANCY
- STUDENTS' ACHIEVEMENTS
- FACULTIES' ACHIEVEMENTS
- COMMUNITY ENGAGEMENT
- **PUBLICATIONS**
- PROFESSIONAL DEVELOPMENT
- M.E DISSERTATION

AROUND THE INSTITUTE

Lalbhai Dalpatbhai College of Engineering endearingly known as L.D.C.E is Ahmedabad's premier engineering college situated at city's heart surrounded by elite organization Like PRL, ATIRA, ISRO, IIM and CEPT. Started 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 Directorate of Technical Education, Government of Gujarat.

FROM THE DESK OF PRINCIPAL

Dear Students and Faculty members,

the year began on a note of hope and fulfillment with the celebration of the Kite festival by the Umeed fest. We celebrated the 72nd Republic day with all the grandeur and responsibility while observing the Covid19 protocol. Further, in the academics and research areas. various departments organized online webinars, FDPs, published 22 research papers and 16 faculty members delivered expert lectures. The progress of the SSIP cell is rewarding in itself as we filed and published 03 patents, 03 research projects received grants and one of our research projects was awarded by GTU. All of us are facing academic challenges during these tough times and I am glad to inform you that we are not only supporting the students in academics, but we have also extended help and support to those in need due to Covid.

I end on a note of hope for a better tomorrow for all of us.

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Dr. R K Gajjar



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Major Events

The department of Applied Mechanics under the the Indian Geotechnical Society. Ahmedabad Chapter and the Institution of Engineers (IEI), organized a Short Term Training Program in Online mode on "Recent Trends in Environmental Geotechnics for Sustainable Development" from 22nd-26th March 2021. This STTP was sponsored by GUJCOST, IGS & IEI and approved by DTE & ISTE. The speakers from esteemed bodies such as IIT Bombay, IIT Madras, IIT Bhuvneshwar, BITS Pilani, NIT Trichi, IIT Guwahati, Bhabha Atomic Research Centre, Irrigation department (GoG), Macferri India Ltd, IIT Gandhinagar were invited for the online sessions during the training program. The valedictory session was presided over by Prof. Dr. N. M. Samidhya (President, IGS) & Dr. Sachin Parikh (Joint Director, Directorate of Technical Education, Gandhinagar). The entire STTP was efficiently conceptualized by Dr. M. V. Shah and coordinated by Dr. M. V. Shah & Prof. Alpa J. Shah and cocoordinated by Prof. Shalini Singh under the able



SAE India Student Convention: this convention was organized by SAE LDCE club under the banner of SAE India on 10/02/2021 and coordinated by Prof. R. J. Jani and Prof. J. P. Vasani. In this convention 23 participants from various institutes had participated.

Process Design to Prototype Development Workshop: This workshop was organized by SAE LDCE Club in collaboration with SSIP and ICC LDCE on 18/02/2021. Hardik Gohil, Aman Rupareliya and Khevna Vasani had delivered their expertise on process design, prototype development and different case studies. 30 participants attended on offline mode and 230 participants attended this on online mode.



Department of Biomedical Engineering, L. D. College of Engineering organized 1-week AICTE-ATAL sponsored FDP on "Emerging Technologies in Healthcare: IOT/Wearable Technologies, AI, Computational Neuroscience" from 18th to 22nd January 2021.





- A Research Project got approval under STEM on "Valorization of Lignin derived alkylphenols to Phenols and Olefins: A greener and sustainable approach" with a grant of Rs 2 lakhs. The Principal Investigator is Dr. Paresh H. Rana in collaboration with SVNIT, Surat.
- Civil Department organized a webinar on "Orientation session for all students & faculties of Institute" in association with IIC and SSIP Cell on 31st March 2021. Prof. (Dr.). Deepali Kamthania, School of Information Technology, Vivekananda Institute of Professional Studies, Delhi was the expert for the talk and it was coordinated by Prof. P. K. Lalwani, Prof. A. M. Mirza and Prof. J. S. Kamble.



"Hands-on Session on IoT Project"- IoTLab:
 Computer Department had organized an IoT Lab
 session: "Hands-on Session on IoT Project" on 19th
 February 2021. The event was coordinated by Prof.
 Rajlaxmi Jaiswal for the students of 6th semester.
 Approximately 97 students benefited via the online
 platform of Microsoft Teams. Mr. Nirav Chauhan
 from Tops Technologies Pvt. Ltd. was the facilitator
 of an event.





• "GYAN GANGA" - LDCE IT ALUMNI TALK SERIES:

The Information Technology department of L.D. College of Engineering Organized "GYAN GANGA- LDCE IT ALUMNI SERIES" a one week webinar (online mode) from 8th March 2021 to 12th March 2021



- The event was organized by faculty coordinators Prof. Bakul Panchal, Prof. Jahnavi Patel and Prof. Swati Patel for the students of all semesters with the help of student coordinators Shivangi, Chintan and Zarna. Around 80-90 students from BE/ME/MCA courses attended on the online platform (Microsoft Teams). In this event, the alumni students delivered an expert session in Emerging Technology. The Experts are as below:
 - 1) Mr. Dhavalkumar Baraiya, (Systems Engineer, TCS) delivered a session on **The Future of Web Development**, in which he started with web development and discussed how should we create a web application either Single Page Apps(SPA) or Progressive Web Apps(PWA), then a brief knowledge on AI(Artificial Intelligence).
 - 2) Mr. Nirav Jani, (Systems Engineer, TCS) delivered a session on Enterprise Resource Planning (ERP). He discussed architecture, Framework, Components, Modules, Benefits, Advantages and Disadvantages and Examples of ERP, ERP Software companies, Risk with ERP implementation, ERP implementation approaches.

- 3) Prof. Dhaval Gandhi, Lecturer in IT, Dr. S & S.S. Gandhi College of Engineering & Technology. He delivered a session on The server consolidation process in cloud computing. He provided detailed information about cloud computing, virtualization and server consolidation from process to challenges and its solution.
- 4) Miss. Param Ahir, Assistant Professor, Saffrony Institute of Technology 2021. She delivered a lecture on basic knowledge of Natural language processing, a brief introduction of her area of research, and working on Natural language processing in the real world and also performed a practical demo real-time application of Natural language processing.



FIELD VISIT AT INCUBATION CENTERS

The Field visit was conducted for the students of the 1st semester CE/IT Department under the guidance of Dr. Purvi Ramanuj, Prof. Hetal A. Joshiara and with the help of student coordinators Bhumi Sharma (190283116018), Yagna Patel (190280116122), Aman Pal Singh and Malav Shah. The objective of the event was to have exposure to startups and innovation. Around 79 students visited the Incubation Centres – I Hub and GIC, Ahmedabad. In this event, the alumni students delivered an expert session in Emerging Technology.





- Dr. S. S. Pathan, Asso. Professor, Mechanical Dept., has been coordinating and representing the institute for IIRS-ISRO Outreach e-learning programmes. Total 215 students have been registered, till date, for 8 different online outreach programmes based on remote sensing, GPS, Geocomputation techniques & Geoweb services, Overview of Geoprocessing using Python, Advances in SAR-Polarimetry & Interferometry
- ATAL FDP TITLED, "FRP COMPOSITES" ORGANIZED BY PLASTIC TECHNOLOGY DEPARTMENT.
- Plastic Technology Department, L. D. College of Engineering, arranged an online ATAL FDP titled "FRP Composites" from 18th to 22nd January 2021in which around 176 participants from different parts of the country participated. Speakers from renowned institutes like GIT, IIT, MIT-WPU, ICT, CSIR-National Chemical Laboratory, Nirma University shared their views on the recent developments, uses and future scopes of Fibre-Reinforced Composites.
- Prof. P. M. Mistry and Prof. H. J. Jaiswal from Textile Technology worked as a liaison officer in Placement fair 2021 from 18th to 19th March 2021 at GTU, Chandkheda.
- Prof. P. M. Mistry, Prof. K. J. Ponda and Prof. S.J. Parapuram from Textile Tech. attended the Women's day program conducted online in March 2021

INDUSTRY-INSTITUTE INTERACTION:

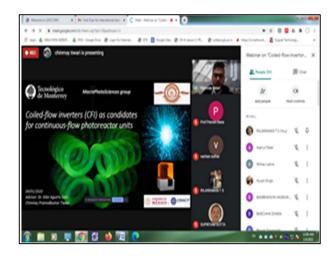
- Webinar on Clean Technology was organized by the Automobile Engineering department and SAE LDCE Club on 09/03/2021. Mr. KP Murthy, Founder -Clean Technology India was an expert for this webinar and 35 participants have taken advantage of this webinar
- Automobile Engineering Department conducted a virtual visit of SPRERI (Sardar Patel Renewable Energy Research Institute) open house on 13th March 2021. Around 45 students and 2 Faculty members attended the same.



 Biomedical Engineering department organized an online workshop for Multi-Parameter Patient Monitor, ECG Machine and Syringe Pump on Saturday, 6th February 2021. In this workshop, Vaibhav Kakadiya (Biomedical Engineer, Karma Meditech) demonstrated real -time working of Multiparameter Patient Monitor, ECG Machine and Syringe Pump.



- Webinar on Industry 4.0 was organized by the Automobile Engineering department and SAE LDCE Club on 26/03/2021. Mr. Ashutosh Parasnis, Founder of Newbox Consulting was an expert for this webinar and 50 participants have taken advantage of this webinar.
- An expert lecture on "Coiled-flow invertors (CFI) as candidates for continuous flow photoreactor units" by our alumni Shri Chinmay Tiwari, MSc. (Nanotechnology) Tecnológico de Monterrey, México was organized as a part of the International Lecture Series on 4th January 2021. The online lecture benefitted the students by not only providing technical knowledge but also for higher studies abroad.



- An Expert lecture by Dr. Mamta Chahar, Professor, Nalanda College of Engineering, Bihar on "Nanotechnology and its application" was organized on 7th January 2021.
- A panel discussion on "Industrial problems related to Chemical Engineering" with Shri Narendrabhai Vadher and Shri Vipulbhai Shah was organized on 5th February 2021.

 EC department had arranged an Expert Lecture by Bhavesh Battiwala on "Current state of VLSI/Processor/Controller/FPGA", on 17th February 2021. Mr. Bhavesh Battiwal is an alumni of EC, LDCE of batch 2001-2005 and currently working at Apple as 4G/5G Modem Design Verification Engineer.





- Prof. Y. D. Vora & the faculty team have done consultancy and testing work worth costing Rs 4,59,500/- during the last 4 months in the area of trailer design approval, umbrella consultancy, etc from M/S Gujarat Agro Industries Corporation Ltd, Gandhinagar and other industries. Prof N M Bhatt, Prof R G Kapadia, Prof K G Dave, Prof P. R. Rathod, Prof S. S. Pathan, Prof R. O. Paliwal, Prof R J Jani, Prof U. A. Patel, Prof H. P. Patel, Prof G. N. Sutaria, Prof N. H. Pancholi, Prof M. D. Chaudhari, Shri D. M. Chavda and Shri M. D. Patel have extended their cooperation and services to complete this consultancy task successfully.
- Shri Anand Srivastav delivered an expert talk in the webinar on "Reverse Power Protection in Power System" on 20th March 2021.

 Faculty interaction with our alumni Mr. Jayesh Gandhi, 1993 batch was organized on 21st January 2021.





- Prof. R. N. Desai arranged pedagogy meetings with
 - 1. Mr. Sandip Adesara, Director of Regius Ceramics on "Novel application of Rubber in flooring and decorative purpose",
 - 2. Mr. Parin Sheth, M.D. of Shreenath Rubber on "Recent trends and demands of surgical rubber products in today's scenario",
 - 3. Mr. Prakash Patel, Director of Agile Rubber products on "Advantages and applications of Thermoplastic Elastomers",
 - 4. Mr. Atul Shah, Rubber alumni & MD, Pioneer Rubbers on "Process and Preparation of carbon nanotubes",
 - 5. Mr. Rinkesh Shah, on "Exploration of the new horizons",
 - 6. Mr. Manan Shah, Deputy Manager- Business Development at Kloeckner DESMA Machinery Pvt. Ltd. on "Novel application of Rubber in electric vehicles". Prof. A. D. Bhatt, Prof. B. D. Patel, Prof. S. J. Padhiyar, Prof. G. G. Bhatt, Prof. R. Y. Modan & Prof. P. N. Chavda attended the meetings through Google Meet during January to March 2021.

 An expert lecture on "Fusion Energy-A Global need" by Shri Aroh Shrivastava, Scientific Officer-E, Institute of Plasma Research, GIDC-Bhat was organized on 17th February 2021.





environmental Engineering department organized expert lectures series of eminent speakers from Gujarat Pollution Control Board (GBCB), Government of Gujarat for departmental UG/PG students to get industrial exposure on various topics like (1) Mr. Pavan Sharma on "Introduction to Environmental Audit" on 6th March 2021 (2) Mr. D. M. Thakkar on "Hazardous & other waste management Rules, 2016 a way forward" on 6th March 2021. (3) Ms. Niyati Prajapati on "Legal Framework of Biomedical waste management & Plastic waste management rule, 2016" on 12th March 2021.

 Mr. H. M. Chavda - Joint Director Horticulture Gandhinagar, Mr. Abhay Jain - Managing Director, S. K. Chaudhari - Divisional Manager Gujarat Agro Industries Corporation Ltd, Gandhinagar appreciated the efforts placed by the Team - L. D. College of Engineering, Ahmedabad in this consultancy work (completed in a short period of time).





- Dr. I. B. Patel (Electrical department) delivered an expert lecture in a webinar on "How to start up an enterprise considering global market trends and culture" on 2nd January 2021.
- Dr. Chetan Singh Solanki delivered an expert lecture in a webinar on "Energy Swaraj Yatra" on 18th January 2021.

Research & Consultancy

(Ex. SSIP/SOIC/Patent filled etc.)

 SSIP project, Reolo, led by Malav Shah and Team and guided by Prof. Hetal A. Joshiara won the early start-up award in presence of Dr. (Prof.) Navin Sheth sir. (VC, GTU) at the GTU INNOVATION COUNCIL SANKUL AWARDS 2021 on 14th February 2021.





- A patent on "Gyrolign" was published with Patent Application No. 202121009400, by Hardik Gohil, Chintan Patel, Aman Rupareliya, Patel Dhaval, Jha Saumitra, Prof. R. J. Jani and Prof. Jayendra Vasani, by Automobile Engineering Department on 05/03/2021.
- Prof. B. H. Parmar filed and published a complete patent on "System and Method for Brain Classification Tumor and Segmentation using Deep **Learning on Embedded Platform**" in Indian Patent Office. Filing 14th Date: January 2021, publication date: 29th January 2021.
- Dr. Bhavin Sedani and Dr. Nirali
 Kotak along with the students of
 the 8th semester received the
 patent grant for 20 years by
 patent office India. Patent Title is
 "Synchronous phase detector
 for protection of three-phase
 operated electrical appliances".
- 4 SSIP projects of 412000/- INR are undergoing.

- Environmental audit of 2 industries is ongoing.
- One research project under STEM, Director, Technical Education, has been selected on topic "Improvement of life cycle of transformer and induction motor using Point On Wave (POW) switching at low voltage level" proposed by Dr. Kunal Bhatt of Electrical department.
- Faculties of Electrical department have done testing of different Industrial product as per IS worth rupees 28000/-
- Patent published on PLC HIGH RESOLUTION TIMER MODULE ON FPGA PLATFORM by Dr. Ankit K. Shah. Indian Patent Office Journal Appl. no. 202021028003A. (IC Department)
- Prof. R. Y. Modan is currently doing research work on "Biodegradable polymers".

- Prof. P. N. Chavda is researching "Ice Repellent coating".
- Research proposal on Nanofibers in collaboration with ATIRA Ahmedabad received approval under Research Promotion under Technical Education – STEM GR. Dr. Ashwin Thakkar is the Principal Investigator of the project.
- The proposal provided by Daxit Soni and team under the mentorship of Prof. G. G. Rubber'O'Mania Bhatt. (Defence-117) under the Mind to Market Challenge in the problem statement "Storage of FOL in operational conditions" in the defense sector has been selected and got a provisional grant of 1,50,000/at i-Hub (Government of Gujarat Enterprise).

STUDENTS' ACHIEVEMENT

1. Harsh Thakkar, ME Geotech Student (Batch 2020 pass out) bagged Gold Medal in GTU convocation held on 18th Jan 2021.



- 2. Aditya Pal & Monit Pal, students of the 3rd Year Civil Engineering, secured 1st Runner up Position in "National Level Event ICI National Concrete Quizathon on 26th 28th Feb 2021" organized by the Department of Civil Engineering and Indian Concrete Institute Students Chapter, Nirma University in association with Nuvoco Vistas Corp Ltd. Prof. Poonam I. Modi mentored all the students. Out of 134 teams from across India had participated out of which 9 teams from the department had qualified the Eliminator Round to enter the Qualifier round. 5 out of these 9 teams made it to the Final Round.
- 3. Abhishek Soni from the 8th semester Biomedical Engineering department secured All India Rank-2 with a Perfect 1000 Score in Biomedical Engineering GATE 2021.
- 4. Aditya Pal, Shruti Tripathi & Dhraiya Chavda got **1st Runner** up position in the Sparkling Star contest finale held on 27th March 2021. The contest was organized by Ultra-tech Pvt. Ltd. Out of the 3 teams which had participated in the contest held in offline mode on 8th & 9th March 2021, 2 teams were shortlisted for the final round. Prof. Poonam I. Modi had mentored all the 3 teams.

5. Venica Maclean, 3rd Year Civil Engineering, Volunteer of NSS, LDCE, represented Gujarat on Rajpath, Delhi in the parade held on the auspicious day of 72nd Republic Day on 26th Jan 2021. She bought laurels to the college as she became part of the NSS Platoon.



- 6. Nidhi Patel from the 8th semester Biomedical engineering department cleared stage 1 of ABU ROBOCON 2021 as a GTU Robocon club member (technical software), selected for stage 2.
- 7. The following students of the Chemical department have cleared the prestigious GATE examination 2021: Rishabh Kashyap (AIR 687), Darshan Parmar (AIR 1639), Bhautik Dhorajiya (AIR 2250), Smit Poojara (AIR 2558), Barvaliya Jenil Arvindbhai (AIR 1425), Joshi ArchanVipul (AIR 2295), Vekariya Vivekkumar Bhikhubhai (AIR 2406), Satani Ravikumar Chhaganbhai (AIR 2500), Ghanchivhora Akrammahendi Aiyubbhai (AIR 2558)
- 8. Dhruvi Patel, Yagnik Vankar and Dhrasti Lheri, students of Semester VI are selected for an online summer internship from various prestigious institutes under Canadian University.
- Shloka Mehta from the 4th semester Biomedical Engineering department cleared the first stage in the digital category selected for Grand Finale of Toycathon 2021.
- 10. Vishva Bhavsar, M.E CSE (EC) student of the batch 2018-2020 received certificate of appreciation in receiving a gold medal for being a branch topper in M.E (EC) at GTU Convocation 2020.

- 11. Akash Dave, Rutwik Bhatia, Subham Sabhaya and Nisha Devi presented a paper on various topics at International Conference on "Green Technologies for Sustainable Development" GTSD-2021 organized by Dharamsinh Desai University, Nadiad from 9th 11th March 2021.
- 12. Shreya Parmar, a student of the Computer Engineering Department participated in the national level event "ACM regional celebration / Blog writing competition" at ACM (Pune chapter) and secured the first rank as well as won ₹2000 in March 2021.
- 13. Koyani Kevinkumar and Vishal Kuril, first-year PG students, secured V rank in the abstract selection of dissertation on Cleaner Production and Clean Technology under GCPC-IIAG for the year 2020-21.
- 14. Team of Automobile and Biomedical students Hardik, Chintan, Aman, Yukta, Khevna and Aishwariya mentored by Prof. J. P. Vasani for the project "Smart Saline Bottle" won 1st prize in i2i category and was awarded by GTU innovation council on 14th February 2021.



- 15. Jheel Makhijani has co-authored the anthology "Beautiful Ecstasy: A joy of growing together" published in Amazon Kindle under the ASIN: B08DFRZJC9 and ISBN: 9798668998692.
- 16. Total 23 students from the Mechanical department qualified in the prestigious GATE examination 2021.

17. Under the leadership and guidance of L. D. College of engineering, the GTU Motorsports team secured 3rd position in engineering design concept event and overall 5th rank in Formula Bharat -2021 Virtual national event held on February 2021.



- 18. Two students of UG are placed in IoT & Embedded Systems based company named "Prompt Softech".
- 19. 12 students of ME CSE 2019-2021batch are selected in Eximius Company for their dissertation work.
- 20. Ms. Nishi Buch was awarded GTU Gold Medal in ME (Environmental Management) for batch 2018-2020 on 18th January 2021 at Mahatma Mandir, Gandhinagar.
- 21. Mr. Hardik Gohel, final year student of Textile Technology department has cleared GATE 2021.
- 22. Nine final year students of Textile Technology got placement in Jindal Textiles during March 2021.
- 23. Total 13 final & pre-final year students from Environmental Engineering Department have qualified in GATE 2021 (Environmental Engineering branch).

- 24. Domadiya Yash, Ajmeriya Deep and Panchal Kaushal, students of the 8th semester got the patent "Synchronous phase detector for protection of three-phase operated electrical appliances" granted for 20 years. This is the first patent of L. D. College of Engineering which is granted by Patent office India.
- 25. Shah Meha Mrunal (180280723011), master student, under the guidance of Prof. Jahnavi Patel got Gold Medal for 1st Rank in ME (IT) on GTU's 10th Annual Convocation held on 18.01.2021, Monday at Mahatma Mandir, Gandhinagar. She received the certificate for it.



26. Bhumi Sharma, a student of B.E. semester 6, got the Award for Best Female Entrepreneur on WE-START event scheduled on Women's Day. Her Faculty Counsellor is Prof. Madhuri Patel.



- 27. Environmental Engineering department, semester 6 (180280113028) student namely Drashti Oza participated in Wetskills- India challenge 2021 (Online mode) from 2nd to 13th January 2021, which was organized by Wetskills Foundation with its Indian partner Centre for Environmental Education (CEE), Ahmedabad. Total 28 participants from India and other countries joined the online Wetskills challenge in India. She was in the team "Aqua Bankers" who worked for the case: "Water as Leverage for clean rivers". Her team won the first prize.
- 28. Pisuwala Mohammed Arbaz, (160280119082_Passout 2020) and Prof. M. K. Vyas have published a paper titled "Experimental Investigation of Flaking Failure in Roller Bearings and its preventive Measures" in International Journal for Research in Engg. Application & Mgmt, Volume 06, Issue 11 in Feb-2021.
- 29. 8 students of the final year registered and started a 15 days training at Indo German Tool Room commencing from 22/3/2021 organized under the Rashtriya Uchchatar Shiksha Abhiyan (RUSA).
- 30. Maulik Chauhan, a student of B.E. semester 4 Rubber Technology attended a webinar on "Role of a Teacher in Implementation of NEP-2020" jointly organized by IQAC-GTU, Niti Aayog & Bharatiya Shikshan Mandal (BSM) held on 19th February 2021.
- 31. Maulik Chauhan, a student of B.E. semester
 4 Rubber Technology attended the 40th
 National webinar on "Career Guidance for
 Government Jobs", addressed by Harendra
 Singh Tomar, Examshala Education Services
 LLP.

- 32. Yashvi Trivedi, a student of B.E. 6 Rubber Technology, participated in "her START 2.0" competition organized by GUSEC along with UNICEF & YuWaah! Foundation.
- 33. Awaish Shaikh, Aadil Rasoliwala and Sadiya Zaveri were the winners in the top two business category initiatives at the 2021Competition "MAKE THE CASE", Student Team Case Study Competition organized by Indian Plastic Institute and other organizations.
- 34. Jay Chovatiya & Keyur Amipara, students of BE Sem 8 Rubber Technology have completed 3 Weeks of training on "Digital Marketing & SEO" organised by NSIC, Rajkot from 25th February 2021.
- 35. Environmental Engineering, sem-6 student namely Parthav Aghara (Enrollment no 180280113001) participated in 40th Gujarat State Roller Skating Championship- 2020-21 at Surat from 11th to 15th March 2021 and was awarded Gold Medal (first prize). He will also participate in 58th National Roller Skate Championships 2020-21 at Chandigarh from 31st March to 11th April 2021.



36. GTU INNOVATION COUNCIL SANKUL AWARD 2021 Early-stage start-up award was won by LDCE start-up "Reolo holographic Pvt. Ltd". Malav Shah (Computer Engg dept) is the team leader, Yash Vyas (Electrical Engg dept) is one of the team members and Prof. Hetal Joshiara is the mentor.







- 37. Keval Kukadiya, a student of B.E. semester 6
 Rubber Technology has got the certificate of recognition for attending Linkjoy Social Media Summit from 5th to 7th March 2021 which enabled him to learn from Global Industry Experts.
- 38. Dhruv Patel, a student of B.E. semester 4
 Rubber Technology has completed
 Professional Accredited Course on "ISO
 10001:2018 Quality Management" on 21st
 March 2021 from European Open University.
- 39. Sachin Patil, a student of B.E. semester 4
 Rubber Technology successfully completed 7
 days bootcamp on "Python and Data Analysis"
 on 28th March 2021 offered by ShapeAI.

Faculties' Achievements

- Major Dr. C. S. Sanghvi, Applied Mechanics Dept., successfully completed the course 'Structure, Form, and Architecture: The Synergy' with a consolidated score of 87% (Course duration 8 weeks: Jan-Mar 2020) (NPTEL-AICTE Faculty Development Program).
- Prof. A. G. Hansora successfully completed the course 'Introduction to accounting and finance for civil engineers' with a consolidated score of 69% (Course duration 8 weeks: Jan-Mar 2020) (NPTEL-AICTE Faculty Development Program).
- Major Dr. C. S. Sanghvi delivered 5 lectures on various aspects of structural fire safety in advanced training of Fire Safety Officer held at Gujarat Institute of Disaster Management, Gandhinagar from 1st March 2021 to 20th April 2021.
- Major Dr. C. S. Sanghvi delivered a lecture on Structural Risk Mitigation from Cyclone in Hospitals and Health Facilities during training on Disaster Resilient Hospital Infrastructure at GIDM Gandhinagar.
- Major Dr. C. S. Sanghvi is selected as a Managing Committee member in the Association of Consulting Civil Engineers.
- Major Dr. C. S. Sanghvi is nominated for the award of Eminent Structural Engineer by the Association of Consulting Civil Engineers ACCE.
- Major Dr. C. S. Sanghvi delivered a lecture on Structural Failures due to Earthquake and Wind: Case Studies during training on Approaches Towards Earthquake and Wind Resistant Structural Designs by Department of Civil Engineering, Indus Institute of Technology and Engineering (IITE), Indus University on 15th March 2021.
- Major Dr. C. S. Sanghvi delivered a lecture on Experiments in Earthquake Engineering at IPS Academy Indore on 7th March 2021.

- Dr. R. B. Khasiya, Major Dr. C. S. Sanghvi & Dr. M. C. Chudasama coordinated the installation of a 150 kW solar panel at LDCE under the aegis of Gujarat Energy Development Agency under the guidance of Dr. R. K. Gajjar, Principal.
- Dr. R. B. Khasiya, Major Dr. C. S. Sanghvi & Prof. G. H. Ban are coordinating the projects entitled Sustainable Green Campus under the guidance of Dr. R. K. Gajjar, Principal.
- Prof. P. D. Patel, Automobile Dept., delivered an expert lecture on "Tribological assessment of CI engine fueled with biofuel" on 11/02/2021 during the FDP on "Alternate fuels" sponsored by AICTE-ATAL Academy, Organized by Automobile and Mechanical engineering department, ADIT.
- Prof. B. H. Parmar & Prof. Bhavin Mehta from Biomedical dept. participated in one day webinar on "NBA Awareness Webinar on Outcome Based Education and Accreditation", jointly organized by National Board of Accreditation, New Delhi and Education Department, Government of Gujarat for the Engineering Colleges and Universities in Gujarat on 6th March 2021.
- Prof. C. G. Bhagchandani delivered a lecture on "Impact of Environmental Audit: case studies" on 1st March 2021 as a key resource person in a short-term training program - Environment Auditing Made Easy jointly organized by GERMI, Ahmedabad and GPCB, Ahmedabad.
- Hetal A. Joshiara, Assistant Professor, Computer Department, participated in a oneday seminar STI connect forum at university for R&D proposals on State priority areas S&T on 25th February 2021.
- Dr. Satish Shah delivered a lecture on "Pre-Audit preparation & precautions for fieldwork" on 4th March 2021 as a key resource person in a short-term training program Environment Auditing Made Easy jointly organized by GERMI, Ahmedabad and GPCB, Ahmedabad.

- Dr. Satish Shah delivered an expert lecture on "Process design of Shell & Tube heat exchanger" on 4th Feb 2021 at Chemical Engineering Department, Diploma Studies, Parul University.
- Dr. Mohd. Zuned M. Shaikh from the Civil department obtained a Ph.D. degree on 22nd January 2021 from Gujarat Technological University.
- Dr. P. J. Gundaliya delivered an expert lecture on "Introduction and Applications of Soft Computing Techniques - Genetic Algorithm in Engineering" in One Week Gujarat Knowledge Society (GKS) sponsored, DTE- Govt. of Gujarat Approved Online Short-Term Training Program (STTP) on "Application of Optimization and Computing Techniques in Engineering" scheduled from January 18, 2021 to January 22, 2021 organized by the Civil Engineering Department, L.D. College of Engineering.
- Dr. Rajesh Kumar M. Jain delivered an expert lecture on the subject of Stress Management by Yoga to the students of M.E. Electrical, Shanti Lal Shah Engineering College, Bhavnagar on 23/02/2021.
- Dr. Rajesh Kumar M. Jain delivered an expert session on "CO-PO mapping" in a one-week DTE sponsored short-term training program on Outcome-based education and NBA accreditation process organized during 28/12/2020 to 02/01/2021 by the Civil Engineering Department, L. D. College of Engineering.
- Prof. Dr. Mihir V. Shah was selected for AICTE-UKIERI Technical Education Leadership Development Programme (TELDP) and successfully completed the Change Project and a written assignment. He will receive the certificate from Charted Management Institute (CMI) Level 5 Certificate in Leadership and Management.
- **Prof. Dr. Mihir V. Shah** delivered an online talk on "**General research and awareness**" at LDCE campus on 5th March 2021.
- Prof. Dr. Sanjay Prajapati delivered an online talk on "My Experiences of Research Publications", at LDCE campus on 5th March 2021.

- Prof. Dr. Sanjay Prajapati prepared a revision of the manuscript on "High-Performance Computing-in-Memory Architecture using STT/SOT-based Series Triple-Level Cell MRAM".
- Prof. Dr. Pinky Brahmbhatt arranged an Expert lecture by Bhavesh Battiwala on "Current state of VLSI/Processor/Controller/FPGA", on 17th Feb 2021. 80 students attended the program.
- Prof. Dr. Pankaj Prajapati served as a reviewer in Scopus indexed Journal International Journal of Applied Metaheuristic Computing (IJAMC) published by IGI publisher, USA.
- Prof. Rena Shukla participated in 07 various webinars.
- Dr. Hiteishi Diwanji worked as an Expert Committee Member for Setting Up a Laboratory in The Area of AR/VR and BlockChain in February 2021.
- Dr. Mehul Parikh delivered an expert talk on "Dynamic Programming & Application of Optimization in Engineering" held on 18th January 2021 during an online STTP on "Application of Optimization & Computing Techniques in Engineering" organized by the Civil Engineering Department, L. D. College of Engineering on 18th January 2021. The event was GKS Sponsored, DTE approved One week (5-Days) Online STTP from 18th-22nd January 2021.
- Prof. Shital A. Solanki worked as a committee member for a one-day workshop organized by *i*-Hub Gujarat for "Celebrating Women in Startups" to promote Women Entrepreneurship in the State under the flagship initiative WEstart on 7th March.
- Hetal Pandya, Assistant Professor, Computer Department, L.D College of Engineering guided projects for both SSIP as well as for the final year students.
- Rajyalakshmi Jaiswal, Assistant Professor, Computer Department is guiding two ME students as well as two final year projects.

- Dr. Chudasama, Prof. & Head (Electrical), delivered the following Expert Lectures:
 - (1) "Program level preparations and expert visit for NBA accreditation" expert lecture delivered during the STTP organized by Civil Engineering Department Jan 2021.
 - (2) "Program level preparations and expert visit for NBA accreditation" expert lecture delivered during the STTP organized by GMB Polytechnic Rajula, 22-03-2021.
 - (3) "Introduction to ANN and applications of NNTOOL", expert lecture delivered during the STTP organized by GEC Bhuj, March 2021.
- Prof. R. N. Desai successfully coordinated an event as a Convener for Celebration of International Women's day on the theme of "Women in Leadership: Achieving Equal Future in a Sustainable World" on 8th March 2021 through the online platform, Google Meet.
- Prof. R. N. Desai participated in a webinar on "How to write an Effective Research article" delivered by Dr. Hitesh Panchal, Asst. Prof. GEC, Patan & organized by L.D.C.E. on 20th March 2021 through MS Team.
- Prof. R. N. Desai and Prof. B. D. Patel participated as mentors in "her START 2.0" competition organized by GUSEC along with UNICEF & YuWaah! Foundation.
- Prof. B. D. Patel successfully coordinated for the Opening of Students' Chapter of the Institution of Engineers (India) named "Student Chapter of Rubber Technology".
- Prof. A. D. Bhatt and Prof. P. N. Chavda attended the STI Connect Forum of University for R&D proposal on State priority areas of S&T arranged by Department of Science, Technology and Innovation Policy of Gujarat held at L. D. College of Engineering on 25th February 2021.

- Prof. A. D. Bhatt and Prof. B. D. Patel attended "Women in Leadership: Achieving Equal Future in a Sustainable World" on 8th March 2021 through the online platform, Google Meet.
- Prof. B. G. Basantani worked as Coordinator and Prof. K.P. Jain, Prof. H. C. Shah and Prof. S. R. Shah worked as co-coordinators for the successful completion of online ATAL FDP on FRP Composites organized by the department from 18th to 22nd January 2021.
- Prof. P. N. Chavda participated in GUJCOST & DST (Government of Gujarat) Sponsored One Day National Webinar on the theme "Low Temperature Pyrolysis of Biomass and Polymer Wastes: Challenges and Perspective" on 5th February 2021 organized by School of Engineering, P. P. Savani University.
- Prof. P. N. Chavda attended a research & innovation webinar titled "Future Applications of Natural Rubber: Research Challenges" on 3rd February 2021.
- Prof. B. D. Patel attended a webinar on "How to write an Effective Research article" delivered by Dr. Hitesh Panchal, Asst. Prof. GE, WDCC, Patan & organized by L.D.C.E. on 20th March 2021 through MS Team.
- Prof. R. Y. Modan attended Webinar on the Transformation of Business operations using Industry 4.0 technologies (Institute for Engineering Research) on 31st January 2021.
- Prof. G. H. Ban delivered an expert lecture on "Air Pollution Control Techniques" on 02/03/2021 in an online short-term training program on "Environmental Auditing Made Easy: Basics and Analytical Procedures" organized by Gujarat Energy Research and Management Institute (GERMI) & Gujarat Pollution Control Board (GBCB), Government of Gujarat.

- Prof. M. J. Pandya delivered an expert lecture on "Water and Wastewater Collection & Analysis Techniques" on 03/03/2021 in an online short-term training program on "Environmental Auditing Made Easy: Basics and Analytical Procedures" organized by Gujarat Energy Research and Management Institute (GERMI)&Gujarat Pollution Control Board (GBCB), Government of Gujarat.
- Dr. N. M. Bhatt, Professor, Mechanical Dept., worked as a member of a committee constituted by GTU for preparing norms and detailed guidelines for permitting credit transfer of SWAYAM MOOC courses and offering minor degrees for UG courses in an emerging area.
- Dr. N. M. Bhatt worked as an expert to conduct
 Mock NBA of Mechanical Engineering
 Department, Government Polytechnic,
 Ahmedabad on 30/03/2021.
- Dr. N. M. Bhatt worked as an academic expert of a committee constituted by GWSSB for testing of various pumps manufactured by different companies in respect to vendor selection for GWSSB.
- Dr. N. M. Bhatt delivered an expert lecture on.
 First-year academics, Coordination and Documentation during one-week STTP on Outcome Based Education and NBA Accreditation Process organized by Civil Engineering Department of L. D. College of Engineering on 1st January 2021.
- Prof. Stuti R. Shah anchored the online celebration of International Women's Day on the 8th of March 2021 on the theme of "Women in leadership: Achieving an equal future in a Sustainable World", arranged by the Women's Development Cell, LDCE.
- Prof. P. R. Rathod delivered an expert lecture on "Surface Engineering and Automation" during an STTP title "Trends in Mechatronics and Manufacturing Industrial Automation" at Arya Institute of Engineering Tech and Management on 12/02/2021.

- For fostering the ecosystem bridging Government, Academia and Industry, Dr. S. S.
 Pathan was appreciated jointly by Texas Instruments, USA & AICTE. The certificate of appreciation was issued to him for coordinating Swayam MOOC on "TI Embedded System Design using MSP430".
- At the institute level, Dr. S. S. Pathan coordinated Swayam NPTEL Local Chapter activities. Total 186 members have registered for 389 NPTEL MOOC Courses for the semester of Jan - Apr 2021.
- Dr. S. S. Pathan had given an expert talk on "Mathematical modeling and optimization with MATLAB Optimization toolbox" in an online FDP organized by the Civil Engineering Department of L. D. College of Engg. on January 18 - 22, 2021. The participants were from engineering colleges and polytechnics of Gujarat state.
- Prof A. V. Patel worked as an expert in the Ahmedabad District Rides Inspection Committee. He has checked design aspect and assessment of rides located at various places.
- Dr. M. D. Chaudhari delivered an expert talk at Government Engineering College Gandhinagar on 19th January 2021 on the topic of "Phase Diagrams and Phase Transformations". Around 75 students and faculties have participated in the talk.
- Dr. M. D. Chaudhari delivered an expert talk on 1st February 2021 on the topic of "Dislocation Theory: Slip and Slip Systems, Strengthening Mechanisms" for AICTE-GTU sponsored FDP on "Metallurgy for All" held at Government Engineering College, Gandhinagar.

COMMUNITY ENGAGEMENT

NCC, NSS, Clubs of college, other community activities

Ummeed – Let's Fly Happiness (January 12, 2021)

Volunteers of NSS LDCE celebrated UMMEED '21 by visiting the NGO and distributing around 200 packets of chiki, 200 firkis and 4000 kites to nearly 200 underprivileged kids. This event was carried out by following complete norms issued by the government along with social distancing, masks and sanitation.





Republic Day (January 26, 2021)

On the auspicious day of the 72nd Republic Day of our nation, NSS LDCE was a part of the celebration in the presence of our honorable chief guest Dr. B. S. Munjal, Senior Scientist at ISRO & Alumni of LDCE. The flag hoisting was carried out in the Civil Lawn in the campus of LDCE followed by a short address by the principal, Dr. R. K. Gajjar and the respected chief guest. Flag hoisting was followed by the inspection of parade by Chief Guest Dr. B. S. Munjal.

Principal madam addressed the faculty & students & motivated them to work hard for the betterment of LDCE. Dr. B. S. Munjal, Chief Guest had given a very motivating speech & had inspired all.



Rang Amaizi – A Unique Wall Painting Competition (February 26, 2021)

NSS unit of LDCE organized the National Level event, "Rang Amaizi – A Unique Wall Painting Competition." This year, due to the prevalence of COVID-19, the competition was carried out differently by following all the safety protocols issued by the government. The event was carried out with a limited number of participant teams. Walls were provided keeping social distance in mind and the number of participants in a team was also restricted to two along with an allowance for only one guardian. Proper hygiene was maintained while supplying food and water.





 Vaccination Drive (March 26, March 30 and April 1, 2021)



NSS LDCE completed the 3-day vaccination drive with the front line warriors and the NSS volunteers and vaccinated more than 500 college faculty & staff members and the family members of LDCE.

Azaadi ka Amrut Mahotsav

NSS LDCE conducted various events during the celebration of India's 75 years of Independence from March 12, 2021 to April 5, 2021. The activities organized during the mentioned period of time are:

Cycle Rally:

A cycle rally on March 12, 2021 was organized on the pre-decided route where NSS Volunteers participated and completed it as the commencement of the Mahotsav.



• Online Essay Writing Competition:

An Online Writing competition on March 12, 2021 where the participant had to submit an essay on topics like 75 years of Independence, Pride of Gujarat, Female Freedom Fighters, etc. Nearly 50 students participated and the winners were appreciated.

 Webinar for "Post-Independence Role of Sardar Patel:

A webinar for "Post-Independence Role of Sardar Patel" where 100 participants attended it and an eminent speaker Dr. Gaurang Jani gave an in-depth knowledge on Sardar Patel.

PUBLICATIONS/PAPERS PRESENTED

- Dr. Manish V. Shah, Applied Mechanics Dept., participated, published and presented a paper entitled **IMPROVING STRENGTH** CHARACTERISTICS OF OLD PIRANA MUNICIPAL SOLID WASTE (MSW) USING STABILIZING **AGENTS** in Virtual International Conference on **Technologies** for "Green Sustainable **Development**" (GTSD 2021) organized by Dharmsinh Desai University (DDU), Nadiad in association with GUJCOST during 9th-11th March 2021.
- Dr. Manish V. Shah participated, published and presented a paper entitled INFLUENCE OF ECO-FRIENDLY CHEMICALS ON SWELL, SHRINKAGE & STRENGTH CHARACTERISTICS OF ALLUVIAL SOIL in Virtual International Conference on "Green Technologies for Sustainable Development" (GTSD 2021) organized by Dharmsinh Desai University (DDU), Nadiad in association with GUJCOST during 9th-11th March 2021.
- Dr. Manish V. Shah participated, published and presented a paper entitled FEASIBILITY STUDY ON MUNICIPAL SOLID WASTE (MSW) AS SUSTAINABLE ENGINEERING MATERIAL USING SUCTION CHARACTERISTICS in Virtual Conference on "Disaster Risk Reduction" (VCDRR 2021) organized by NIT Surathkal, NIDM, IWMI, ADRRN, Inst. Of Himalayan Risk Reduction during 15th-20th March 2021.
- Parmar Bhavesh, Parikh Mehul published a paper BRAIN TUMOR SEGMENTATION AND SURVIVAL PREDICTION USING PATCH BASED MODIFIED 3D U-NET. In: Crimi A., Bakas S. (eds) Brainlesion: Glioma, Multiple Sclerosis, Stroke and Traumatic Brain Injuries. BrainLes 2020. Lecture Notes in Computer Science, vol 12659. Springer, Cham. https://doi.org/10.1007/978-3-030-72087-2 35.

- Poonam Modi participated, presented & published a paper entitled EVALUATION OF THE EFFICACY OF UN-BURNT BRICKS PRODUCED USING SILICA RICH DIMENSIONAL STONE CUTTING WASTE under oral presentation category in Virtual International Conference on Sustainable Building Material and Construction (ICSBMC-2021) organized by the Civil Engineering Department, SVNIT, Surat in association with ICI Surat Centre during 4th to 6th Feb 2021.
- Akash Dave and S. M. Dutta presented a paper on GREEN ENERGY UTILIZATION FROM NATURAL SYSTEMS: FORWARD OSMOSIS at International Conference on "Green Technologies for Sustainable Development" (GTSD-2021) organized by Dharmsinh Desai University, Nadiad from 9th-11th March 2021.
- Sanket C. Patel and Pinal D. Salot published a paper on SURVEY ON DIFFERENT OBJECT DETECTION AND SEGMENTATION METHODS in International Journal of Innovative Science and Research Technology Volume 6, Issue 1, January – 2021.
- Rutwik Bhatia and S. M. Dutta presented a paper on FDFO FOR DIRECT FERTIGATION at International Conference on "Green Technologies for Sustainable Development" (GTSD-2021) organized by Dharmsinh Desai University, Nadiad from 9th-11th March 2021.
- Nisha Devi and P. H. Rana presented a paper on DEVELOPMENT OF NOVEL **ORGANO** RUTHENIUM **DRUGS FOR CANCER** at International Conference "Green on Technologies for Sustainable Development" (GTSD-2021) organized by Dharmsinh Desai University, Nadiad from 9th-11th March 2021.

- Subham Sabhaya and S. R. Shah presented a paper on GREEN SOLVENTS APPLICATION AND PREDICTION OF VLE DATA FOR CHEMICAL INDUSTRIES at the International Conference on "Green Technologies for Sustainable Development" (GTSD-2021) organized by Dharmsinh Desai University, Nadiad from 9th-11th March 2021.
- Dr. Mehul Parikh with Co-author Prof. Bhavesh Parmar published a paper titled BRAIN TUMOUR SEGMENTATION AND SURVIVAL PREDICTION USING PATCH BASED MODIFIED 3D U-NET in International MICCAI Brain Lesion Workshop in Lecture Notes in Computer Science, Vol 12659. Springer on 26-3-2021. doi.org/10.1007/978-3-030-72087-2_35
- Dr. Mohdzuned M. Shaikh & Lodha, Pradeep & Eslamian, Saeid published a paper on AUTOMATIC CALIBRATION OF SWAT HYDROLOGICAL MODEL BY SUFI-2 ALGORITHM in International Journal of Hydrology Science and Technology. 1. 1. 10.1504/IJHST.2021.10036580, (2021).
- Parth Sinroza and Dr. Mohdzuned M. Shaikh published a paper on A REVIEW ON CLIMATE CHANGE IMPACT ANALYSIS USING STATISTICAL TOOLS, HYDRO 2020- International Conference (Hydraulics, Water Resources, and Coastal Engineering) (2021).
- Himadri Shah, Mr. Sudhanshu S. Dixit, Dr. V M PATEL, Dr. Dhruvesh Patel, Nimra Memon published a paper on ESTIMATION OF SEDIMENT PRODUCTION RATE USING JOSH AND DASH MODEL- A CASE STUDY OF REL RIVER, BANASKANTHA DISTRICT, HYDRO 2020-International Conference (Hydraulics, Water Resources, and Coastal Engineering) (2021).
- The paper titled DEVELOPMENT OF ECOLOGICAL THERMAL INSULATION ROUTE BY USING MULTI-SURFACE CHLORINATED RUBBER PAINT has been published by Prof. Priyanka Chavda in Journal of Industrial Mechanics (e-ISSN: 2582-1067) volume 6 Issue 1 Year 2021.

- Rena Shukla, Dhruv Trivedi and Kavisha Shah have published a paper ANALYSIS OF PARKING DEMAND AND SUPPLY FOR RESIDENTIAL LANDUSE in Solid State Technology Journal, Scopus indexed Volume: 63 Issue: 6. DOI: http://solidstatetechnology.us/index.php/JSST/art icle/view/9101.
- Rena Shukla published a paper ANALYSIS OF PARAMETERS AFFECTING PRIVATE VEHICLE OWNERSHIP BY CITIZENS IN URBAN AREA in the journal - Psychology and Education Journal, SCOPUS Indexed and Q4 Journal. ISSN: 0033-3077.
- Dr. Ankit K. Shah from IC has published a paper titled FPGA PLC-BASED MULTI-CHANNEL POSITION MEASUREMENT SYSTEM in ISA Transaction, Article in press, 2021, ISSN. https://doi.org/10.1016/j.isatra.2021.01.012. Else vier Journal having an impact factor of 4.3.
- Dr. Sanjay Prajapati published a paper titled HIGH-PERFORMANCE COMPUTING — IN - MEMORY ARCHITECTURE BASED ON SINGLE AND MULTILEVEL CELL DIFFERENTIAL SPIN HALL MRAM in IEEE Transactions on Magnetics.
- Prof. Bharati G. Basantani participated and presented a research paper titled, BIO COMPOSTABLE PLASTICS: A NEW GENERATION OF ENVIRONMENT-FRIENDLY PLASTICS at the International Conference on Green Technologies for sustainable development (GTSD-2021) from 9th to 11th March 2021 at DDIT, Nadiad.
- Kishan Patel and Rena Shukla have published a paper
 A REVIEW ON DEVELOPMENT OF OMPI OF
 BITUMINOUS PAVEMENT USING BUMP
 INTEGRATOR AND FWD in Journal of Emerging
 Technologies and Innovative Research, JETIR, An UGC
 Approved Journal, ISSN NO:2349-5162, Impact
 Factor:5.87 in Volume 8, Issue 1, January 2021 on
 page no:920-924.

Professional Development

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

Sr. No	Title	Faculty	Department	Organized By	Duration (DD/MM/YYYY) TO (DD/MM/YYYY)
1	Advances in Earthquake Resistant Design of Structures(AERDS- 2021)	Prof. Poonam I. Modi, Prof. Deepa H. Raval, Prof. Kamini A. Parmar		Structural Engineering Division, Department of Civil Engineering, Sardar Vallabhbhai National Institute of Technology, Surat under TEQUIP-III	18/01/2021 to 22/01/2021
2	Retrofitting & Rehabilitation of Old Structures	Prof. C. D. Patel		Department of Civil Engineering, C. K. Pithawala College of Engineering & Technology under IEI	01/02/2021 to 05/02/2021
3	Webinar on "Outcome Based Education and Accreditation"	Major Dr. C. S. Sanghvi, Prof. M. G. Vanza, Prof. A. G. Hansora	Applied Mechanics	National Board of Accreditation and Education Department, Government of Gujarat	06/03/2021
4	Recent Trends in Environmental Geotechnics for Sustainable Development	Major. Dr. C. S. Sanghvi, Prof. P. G. Patel. Prof. D. R. Tarachandani, Prof. M. G. Vanza, Prof. P. J. Mehta, Prof. D. H. Raval, Prof. K. A. Parmar, Prof. A. G. Hansora, Prof. U. K. Patel, Prof. P. I. Modi, Prof. P. H. Andariya		Applied Mechanics Department	22/03/2021 to 26/03/2021

5	Application of Artificial Intelligence & IoT in Civil Engineering	Prof. C. D. Patel		Department of Civil Engineering, Maulana Azad National Institute of Technology, Bhopal under Ministry of Education, Gol	23/03/2021 to 27/03/2021
6	Fundamentals of Combustion	Prof. D. J. Parmar		SWAYAM-NPTEL-IIT MADRAS	Jan-Mar-2021
7	Outcome-based Education & Accreditation	Prof. R. J. Jani, Prof. S. N. Patel, Prof. J. P. Vasani	Automobile	CTE ,Gandhinagar, Govt of Gujarat	06/03/2021 (1 Day)
8	Emerging Technologies in Healthcare: IoT/ Wearable Technologies,AI, Computational Neuroscience	Prof. B. H. Parmar, Prof. Utkarsh V Pancholi, Prof. Bhavin Mehta, Prof. Harshal B. Patel	Biomedical Engg. Dept.	L. D. College of Engg.	18/01/2021 to 22/01/2021
9	Machine Learning Techniques for Imaging and Healthcare with Python	Prof. B. H. Parmar		SSR Engineering College, Chennai	28/01/2021 to 10/02/2021
10	Outcome based education and NBA Accreditation Process	Prof. Jahanvi T Patel		Civil Engg. Department, LDCE	28/12/2020 To 02/01/2021 (1 WEEK)
11	Role of Big data analytics in data science: tools, techniques and applications	Prof. Mital N. Panchal	Information Technology	Department of Computer Engineering & Information Technology, Sankalchand Patel College of Engineering, Sankalchand Patel University Visnagar	25/02/2021 To 01/03/2021 (1 WEEK)
12	Development of Innovative product in IoT systems using BlockChain	Prof. Mital N. Panchal, Prof. Alka J. Patel		Department of Computer Engineering & Information Technology, SankersinhVaghelaBapu Institute of Technology, Vasan Gandhinagar	12/03/2021 To 13/03/2021 (2 Days)

13	Development of Innovative product in IoT Systems using BlockChain	Prof. H. K. Gevariya, Prof. H. B. Pandya, Prof. A. V. Shah	Computer Engineering	Department of Computer Engineering & Information Technology, SankersinhVaghelaBapu Institute of Technology, Vasan Gandhinagar	12/03/2021 To 13/03/2021 (2 Days)
14	Python for Data Science, NPTEL	Prof. Hetal B. Pandya		AICTE	Jan-Feb 2021 (4 Weeks)
15	MOOC training Inculcating Universal Human Values in Technical Education	Prof. M. K. Vyas	Mechanical	AICTE	01/02/2021 to 05/02/2021
16	5 day online FDP on "Inculcating Universal Human Values in Technical Education "	Z. R. Chhaya P. K. Shah Z. J. Chovatia A. M. Mirza	Civil Engineering	AICTE	22/03/2021 to 26/3/2021
17	Climate Change and Hydrological Impact Assessment	Sudhanshu S. Dixit		National Institute of Hydrology Roorkee	2021-01-25 TO 2021-01-29
18	Advanced Research Methodology & Analytics	Prof. P. M. Mistry	Textile	Online, GEC Patan	22.3.2021 to 26.3.2021
19	Advanced Research Methodology & Analytics	Prof. P. M. Mistry	Technology	Online, GEC Patan	22.3.2021 to 26.3.2021
19	Inculcating Universal Human Values in technical Education	Mrs. P. J. Muliya and Mr. H. L. Desai	E.C.	AICTE	22-03-2021 to 26-03-2021
20	ATAL FDP titled "FRP Composites"	Prof. Hetal C. Shah		Plastic Technology, LDCE	18-01-2021 to 22-01-2021
21	NBA Awareness Webinar on Outcome Based Education and Accreditation	Prof. Kintu Jain, Prof Stuti Shah		National Board of Accreditation, New Delhi and Education Department, Government of Gujarat	06-03-2021

22	Celebrating Women Innovators and Start- ups	Prof. Hetal C Shah	Plastic	Education department of the Government of Gujarat	07-03-2021
23	Women in leadership: Achieving an equal future in a Sustainable World	Prof. B. G. Basantani, Prof. Kintu P. Jain, Prof. Hetal C. Shah, Prof. Stuti, R. Shah	Technology	Women's Development Cell, LDCE	08-03-2021
24	AICTE training & Learning (ATAL) Academy online FDP o "FRP Composites"	Prof. B. D. Patel Prof. G. G. Bhatt		By Plastic Engineering department, L.D. College of Engineering	18/01/2021 to 22/01/2021
25	FDP on "Inculcating Universal Human Values in Technical Education"	Prof. S. J. Padhiyar, Prof. R. Y. Modan	Rubber Technology	By AICTE	22/03/2021 to 26/03/2021
26	FDP on "Green Chemistry & Technology for Sustainable Engineering"	Prof. P. N. Chavda		School of Engineering, P. P. Savani University, Sponsored by GUJCOST & DST	18/01/2021 to 21/01/2021

M.E. Dissertation

• Electronics and Communication Engineering Department

Sr. No	Name	Title	Guide
1	Agrawal Manojkumar Madanlal	Novel Approach for dielectric resonator antenna for GNSS & Satellite communication.	Prof. M. C. Sahoo
2	Apoorva	Different placement strategy of low power component and its impacts on lower technology node	Prof. K. V. Patel
3	Bhatt Keyuri Nitinkumar	Enhancement of ATPG and simulation at block level with target test coverage	Prof. A. B. Upadhyay
4	Bhatt Pranav Manojbhai	A Novel Approach to Improve the Performance of Free Space Optical Communication System	Prof. (Dr.) B. S. Sedani
5	Bhoi Manishaben Shankarbhai	Effect of DRC on wafer fabrication	Prof. (Dr.) P. J. Brahmbhatt
6	Chauhan Manish A	Object Detection using Machine learning	Prof. K. G. Vaghela
7	Gadge Minal Anil	Algorithms for the next generation 5G mobile Network	Prof. (Dr.) A. J. Kshatriya
8	Gohil Khushbu Hasmukhbhai	Wearable flexible antenna design for healthcare	Prof. P. J. Muliya
9	Luhar Jigarkumar Ramesh	Impact of Physical Cell Placement of Floorplan stage on Design in Physical Design	Prof. (Dr.) S. B. Prajapati
10	Maheta Abhighna Vasantkumar	Optimizing speech enhancement technique	Prof (Dr.) Nirali Kotak
11	Meghanathi Shradhaben Mukeshgiri	Optimization of POLAR and LDPC codes for 5G communication system	Prof. (Dr.) B. S. Sedani
12	Nikeetabahen Manubhai Bhoi	Floor plan optimization with pin placement strategy	Prof. D. N. Patel
13	Patel Tulsiben Mukeshbhai	Design of Point Multiplication for Elliptic Curve Cryptography	Prof. D. N. Patel
14	Prasad Swati Baleshwar	Impact of physical cell in signoff stage	Prof. (Dr.) S. B. Prajapati
15	Rana Jigna Shankarbhai	YIELD improvement using DFM technique	Prof. S. K. Gonsai
16	Ray Yesha Jitendrabhai	Impact of Macro Placement on Design Qor in Physical Design	Prof. Suresh Bharwad

17	Tadvi Anjaliben Arvindbhai	Reducing the complexity in IOT device with lightweight Cryptography Technique/Algo.	Prof. Z. Y. Noorani
18	Susmita Bera	Importance of Different Checks for Better QoR in Physical Design	Prof. (Dr.) M. V. Shah
19	Vadher Deepkumar Kishorbhai	DFT Methodology for pattern generation with Low Power	Prof. (Dr.) M. V. Shah
20	Vadher Payalben Shardulbhai	Lower geometry DRC challenges and solutions	Prof. (Dr.) M. V. Shah

• Rubber Technology Department

Sr. No	Name	Title	Guide
1	Shah Parth Kamleshkumar	Design of 2-stream (He/2-phase N2) plate - fin heat exchanger and development of	Prof. R. N. Desai
		design software	Prof. G. G. Bhatt