VOL1. ISSUE 3. | L D C E

MEDABA

JULY - SEPT. 2020

TECH PULSE

The Quarterly Newsletter by L. D. College of Engineering



A SNEAK PEEK INSIDE

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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 Department of Technical Education, Government of Gujarat.

FROM THE DESK OF PRINCIPAL

Dear students and faculty members,

Last few months have been guite a challenge for all of us and we gave our best to win over the situation. The remarkable talent and hard work of our students and faculty members has resulted in amazing some outcomes. The main focus of our institute is Research and Innovation. SSIP projects of our institute are getting good recognition. We have filed 10 patents in various fields in the last three months. Patent and publication of the best projects, research and consultancy are our priority. We have conducted advanced and futuristic technology training and workshops with National and International experts. Moreover, 270 faculty members of the institute successfully completed a comprehensive training on IPR organised by i-Hub and Education Department, Gujarat.

Simultaneously our students and faculties have been engaged very well in the social domain too. Tree plantation and Covid testing drives were organized along with webinars and competitions that would help one and all during this pandemic.

Patron: Dr. R K Gajjar



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Design Team

Ravi Parmar Dev Patel Shreya Parmar Meet Koriya

- The department of Applied Mechanics coordinated a Webinar on "Emerging Trends in Geotechnical Testing and Design" on 8th August 2020, jointly collaborated by The Institution of Engineers India, Gujarat State Centre and Indian Geotechnical Society (IGS), Ahmedabad Chapter. Chief Guest of the webinar was Mr. Navinchandra Vasoya, Guest of Honour were Dr. Amit Prashant & Dr. R. K. Gajjar, key note speakers were Dr. Jaykumar Shukla, Er. Ravikiran Vaidya & Dr. C. S. Sanghvi & Dr. M. V. Shah were the Moderator & Coordinator respectively.
- Applied Mechanics department organized an Online Meet with Professionals and Stalwarts of Structural & Geotechnical Engineering. The aim of the Online Professional Meet was to deliberate on all the ongoing concerns of the industry and to provide an array of Dissertation topics to the students pursuing their Masters in Structural & Geo-technical Engineering. The professional meet was attended and leveraged by all the PG students pursuing Structural Engineering & Geotech engineering of Applied Mechanics Department from LDCE as well as GEC, Dahod. The webinar was rightly entitled as "Meet the Professionals" - Industry Academia Collaborative Talk and organized on 14th August 2020. The expert Panel of speakers from the domain of Structural Engineering comprised of Shri Vijay Shah (Bhoomi Consultants), Shri Umesh Soni (Ambuja Cements Ltd), Shri Bhavik Patel (Blue Skyz Engineers), Shri Jignesh Gandhi (CASAD Consultants), Shril Shailesh Desai & Shri Rakesh Mehta (Saunrachana Strucon Pvt. Ltd), Shri Rakesh Shah (S3M, Consultants), Shri Bhavin Shah (SQVe Engineers). The panel of experts from Geotechnical Engineering comprised of Shri Arun Dave (Geotech Soil Testing Lab), Shri Mahendra Bhavsar (SAI SYSTRA India Consultants), Shri Mihir Vora (KBM Engineering Research Laboratory), Shri Parag Dave (M.K.Soil Testing Laboratory)

- Shri Nitin Desmukh (Louis Berger India Metro Rail). The webinar was meticulously planned and organized by Prof. D. R. Tarachandani, Prof. P. J. Mehta, Prof. (Dr.) M. V. Shah, Prof. C. D. Patel & Prof. Shalini R. Singh under the able guidance of Prof. (Dr.) C.S.Sanghvi.
- The department of Applied Mechanics & Civil Engineering coordinated a Webinar on "Water Resources Management" on 29th August 2020, jointly collaborated by The Institution of Engineers India Gujarat State Centre, LDCE A'bad and Water Management Forum (WMF) Ahmedabad. The Key note address was delivered by Shri Vivek Kapadia, Director, Sardar Sarovar Narmada Nigam Ltd. The session was moderated by Prof. Utkarsh Nigam, Asst. Professor, Civil Engineering department.
- Prof. P.J.Mehta and Prof. Kamini A. Parmar from Applied Mechanics department had successfully organized and coordinated webinar on "Career Opportunities (After Graduation)" on 5th Sept. 2020. The expert speaker for the day was department's illustrious Alumni Mr. Vraj Pandya, Executive Engineer, Irrigation Department, GoG. All the students of Civil Engineering department attended the online session and found it useful to get conversant with the possible job avenues after completion of B.E.
- Webinar on "Taking Control of Life" was organized on 19/09/2020 on Google Meet and YouTube Live. Nowadays people are too much worried about their life so they do not have time to think on how to get satisfaction and take control of their life, especially for the ladies. For the same Mrs. Lata Variawa, Head of manufacturing, John Deere Technology Center limited has delivered session that included all the aspects of day to day life to make it better. More than 90 participants have attended this webinar and it was organized by automobile Engineering department in association with SAE Western section Gujarat Division.

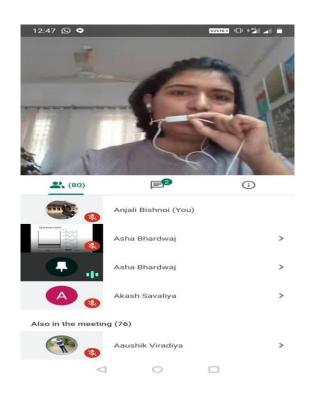


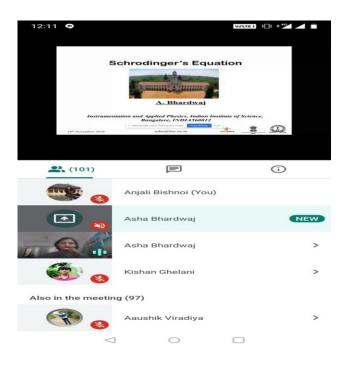
- Expert talk on "Scope in Automotive Industry" was organized by Automobile Department in association with Ellite Techno Group on 17/07/2020. Expert talk was delivered by Mr. Sundar lyer.
- Bio Medical Department had organized a webinar on "Technical Overview of Molecular Diagnostics Instruments" on friday, 4th Sept 2020. The speakers were Deepankar Ramteke (Product Specialist –II- BID) and Prashant Kabariya (AM- Genomic Science) Thermo Fisher Scientific.

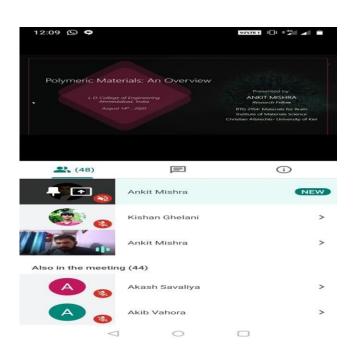


- Bio Medical Department had organized a webinar on "Skill Development for Entrepreneurship in Biomedical Engineering", on 5th Sept 2020. The speaker was Nirav Gohel, Biomedical Engineer.
- Bio Medical Department organized a webinar for making students placement-ready on 10th September, 2020. The webinar was organized in association with Career Naksha®, an ed-tech startup, Vadodara. 73 final and pre-final year students attended this webinar. The resource persons, Mr. Maulin Shah and Mr. Nimish Gopal discussed scopes and demand of Biomedical graduates in the market.

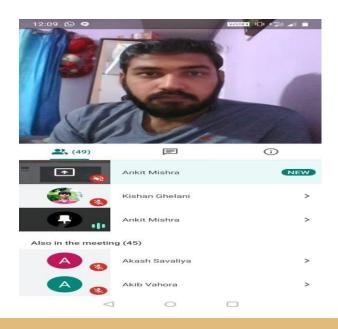
- Civil department with 40 students of B. E. Sem.
 3 attended an AutoCAD course of 40 hours duration.
- Expert lecture was delivered by Prof. Utkarsh Nigam on "Application of Fuzzy and Ann in Engineering and Technology" in a Faculty Development Program at SAGE UNIVERSITY, INDORE, on 31st July, 2020.
- Expert lecture was delivered by Prof. Sudhanshu Dixit on "Safety & Monitoring Parameters in Construction of Earthen Dam" at Institution of Engineers (India) Gujarat State Centre in association with Silver Oak University, Ahmedabad & Water Management Forum of IEI, on 09th September, 2020.
- Chemical Engineering Department had organized a webinar on "Schrodinger Equation" on 7/08/2020 through Google meet platform at 12 noon by Dr. Asha Bhardwaj, Assistant Professor, IAP, Indian Institute of Science, Banglore. The webinar was coordinated by Dr. Anjali Bishnoi, Associate Professor, Chemical Engineering Department. It was a splendid presentation, which exposed students to the core of the subject. All the students and faculties were benefited by the expert talk.



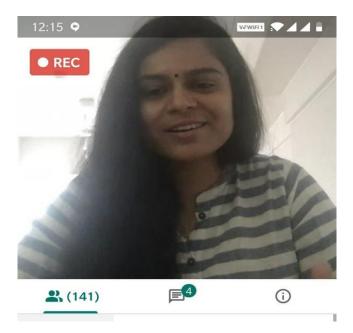




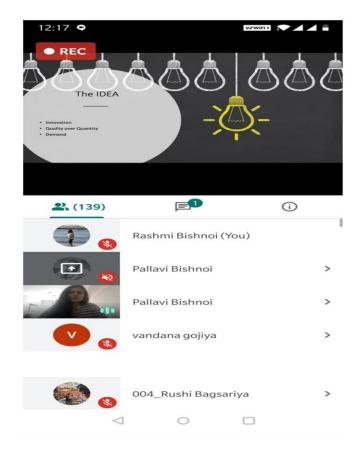
 Chemical Engineering Department, L. D. College of Engineering, Ahmedabad - Gujarat had organized a webinar on "Polymeric Materials: An overview" held on 14/08/2020 on Google meet platform at 12 noon by Mr. Ankit Mishra, Research Fellow RTG 2154: MATERIALS for Brain Institute of Materials Science Christian – Albrechts- University of Kiel Germany. The webinar was coordinated by Dr. Anjali Bishnoi, Associate Professor, Chemical Engineering Department. The webinar provided students significant knowledge.



Chemical Engineering Department, L. D. College of Engineering, Ahmedabad - Gujarat had organized a webinar on "My Story -Entrepreneur's Life & Crossroad" under stewardship of Institute Innovation Council (IIC) Cell, LDCE, supported by SSIP cell, LDCE Ahmedabad LDCE on 28/08/2020 at 12 noon on Google meet platform. This webinar was the part of the Three days webinar series on "Outreach program on innovation and entrepreneurship". The eminent Speaker was Ms. Pallavi Bishnoi, Director & Co-founder, Real Time Renewable Pvt .Ltd. She is detailed and result-oriented consultant offering extensive background in water/wastewater management, sustainable solutions and renewable energy. She has hands-on global experience in the environment sector- UK, USA, Norway and India. The seminar was co-ordinated by Dr. Anjali Bishnoi, Prof. Pratik Patel, Prof. Vandana Gojiya. Students, Professionals, and Academicians, Industry partners have attended the webinar.



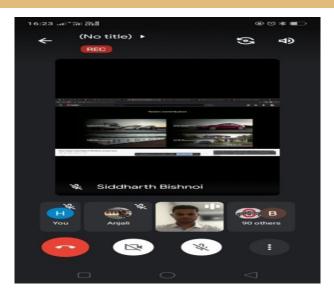
 Chemical Engineering Department, L. D. College of Engineering, Ahmedabad - Gujarat has organized a five days webinar series on "Emerging Trends in Chemical Engineering" from 28.09.20 to 03.10.20 daily at 4.00 to 5.30 PM. Inauguration of the event was on 28-09-20 at 3.30 pm to 4.00 PM. Webinars were conducted via Google Meet.



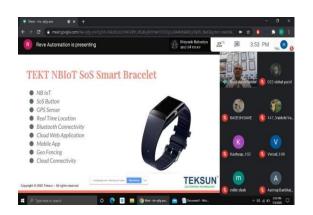


The event was chiefly organized by Dr. P. H. Rana, HoD and nicely coordinated by Dr. Anjali Bishnoi, Prof. S. M. Dutta, Prof. Pratik Patel, Prof. Vandana Gojiya, Prof. Sandip Bhatt, Prof. Hiral Pandya, Prof Rupal Ruperi, Prof. T. S. Rajaraman. More than 500 participants were registered which includes Students, Academicians and Industry Professionals.

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- IETE LDCE Student Forum in association with IETE Ahmedabad had organized webinar on "Online large Scale Recommendation System" by Viral Gupta (Communication AI LinkedIn, USA) and Natural Language Processing by Rajkiran Veluri (Sr. Manager, Data Scientist IBM, India) for students on 12th July, 2020. Around 150 students participated in the webinar. All participants were given ecertificates.
- The department had successfully organized online national conference named ECICIS 2020 on the occasion of Teachers day in collaboration with IETE, Ahmedabad. There were 15 teams shortlisted from all over India which presented papers in the conference.



- Environmental Engineering Department had organized an online lecture series on air quality, health, and climate change from 1st August to 6th September 2020 by Mr. Jay Mehta, Environmental Engineer, Environmental Centre LLP, Management Mumbai. Maharashtra, India and Mr. Sagar Rathod, PhD Student, Department of Atmospheric Science, Colorado State University, Fort Collins, Colorado, USA for UG & PG environmental engineering students.
- IETE Student Forum had organized webinar for students and faculty members on "Opportunities and Challenges in IoT, ML, and AI." Webinar was conducted by Mr. Madhukant Patel (Former Scientist ISRO, CTO TeksunInc., MD Reve Automation LLP) on 4th July 2020. Around 60 students had participated in the webinar.

Day 1	28/09/2020 Monday	Design of Batch Reactor by Prof. S. B. Thakore , Associate Professor Chemical Engineering Department, VGEC Chandkheda <u>https://meet.google.com/mha-yxxd-rpk</u>
Day 2	29/09/2020 Tuesday	Importance of Optimization and Simulation in Chemical Process Industries by Prof. N. M. Patel , Prof.& Head Chemical Engineering Department, GEC Valsad <u>https://meet.google.com/wga-iwoo-oia</u>

Day 3	30/09/2020 Wednesday	Sustainability in solar power and energy infrastructure by Mr.SiddharthBishnoi , CEO – Real Time Renewables <u>https://meet.google.com/gsk-qaiu-mnv</u>
Day 4	01/10/2020 Thursday	Hydrogels, grafting and it's applications by Dr. P. N. Dave , Professor Department of Chemistry, S. P. University <u>https://meet.google.com/owx-wodh-owp</u>
Day 5	03/10/2020 Saturday	Bubble column reactor for cumene oxidation by Mr.Vedant M. Danak , Senior Executive, Deepak Phenolics Limited <u>https://meet.google.com/hyj-uspb-oup</u>

- On 29th August 2020, a webinar on "GATE 2021: UPDATES AND OPPURTUNITIES" was organised. This webinar was mentored by Dr. Ravi V. Gandhi, Doctoral Researcher, South Korea, Ph.D. in Control and Automation.
- On 6th September 2020, a webinar on "Networked Control System: Challenges, Application, and Future Scope" was organised. This webinar was delivered by Dr. Dipesh H. Shah, Doctoral Fellow, Department of Biological Engineering, IIT-Gandhinagar.
- Dr N M Bhatt, Head Mechanical Dept., is nominated as a Technical Expert by GTU in the technical committee for execution of project on CoE Solar Photovoltaic Testing and Calibration facility of EQDC, Gandhinagar.
- Dr N M Bhatt contributed as expert for evaluation of proposal of Student Open Innovation Challenge (a Flagship initiative of SSIP) Phase 7 at all the three stages viz. preevaluation, evaluation by domain experts and jury member in State Level Selection Committee.
- Prof. Hardik Shukla has coordinated online Hitachifactoryvisiton29/8/2020forMechanical department students under ISHRAE, Ahmedabad chapter.

Webinars were conducted by different speakers from Prasad group of Industries on the following topics related to field of Plastic Technology:

- Dr. S S Pathan coordinated Swayam NPTEL Local Chapter activities. A record break registration of 51 faculty members & 310+ students for 775 NPTEL MOOC courses for the semester of July-Dec 2020 isachieved.
- Dr. S S Pathan has been coordinating and representing the institute for IIRS-ISRO Outreach e-learning programmes. Total of 201 students have been registered for 6 different online outreach programmes based on remote sensing, GPS, Geo computation techniques & Geoweb services.

09/07/2020: Basics of Compact Chillers and MTC & its applications in Plastic Technology

- 1. 15/07/2020: Basics & Applications of Dehumidifier Air Dryer
- 2. 2. 29/07/2020: Conveyer Belt system in Plastic processing automation
- 3. 11/08/2020: Basics & Applications of Blenders in Plastic Processing Advanced Technology
- 4. 24/08/2020: Basics of Granulator in Plastic Applications
- 15/09/2020: Basics of Pneumatic Conveying Systems and its Application in Plastic Processing
- 15/09/2020: Basics of Pneumatic Conveying Systems and its Application in Plastic Processing
- 7. 26/09/2020: Basics of Silo & Silo Feeding System & Applications in Polymer Materials

- A Webinar session was organized for Rubber Technology Students on "Customer Service Basics in Tyre Industry" delivered by Mr. Tirath Patel, Rubber alumni & Divisional Head

 Commercial Vehicle- Customer Service at Apollo tyres Ltd. on 12th September, 2020.
- Prof. R.N.Desai had arranged an online pedagogy meeting with Mr. Ronak Panchal on 19th August, 2020 on "Recent advancement in the recycling of rubber waste". 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 meeting through Google Meet.
- Prof. R.N.Desai had arranged an online pedagogy meeting with Mr. Atul Shah, Rubber alumni & MD, Pioneer Industries on "Identification and waste reduction in rubber Industries".
- 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 meeting through Google Meet on 24th August, 2020.

- An Online session was organized for Rubber Technology Students on "Rubber compounds: A market opportunity study" delivered by Mr. Atul Shah, Rubber alumni & MD, Pioneer Industries on 13th July, 2020.
- Dr. Ashwin Thakkar delivered an expert talk during the webinar on "Energy Management – A Key to Economic Growth", organized by The Textile Association (India) -Ahmedabad Unit in association with Felidae Systems on 25th July, 2020. All faculties of the Department attended the webinar.
- Dr. Ashwin Thakkar delivered an expert talk during the webinar on "The Role of Cloud Based Remote Technology in the Textile Manufacturing Industry", organized by The Textile Association (India) - Ahmedabad Unit in association with iTexClouds ERP on 5th September, 2020. All faculties of the Department attended the webinar.

Research & consultancy (Ex. SSIP/SOIC/Patent filled etc.)

- Patent published on SMART SALINE BOTTLE, Patent Application No. 202021029121 by students of Bio medical and Automobile department Hardik Gohil, Chintan Patel, Aman Rupareliya, Khevna Vasani, Derasari Aishwarya, Yukta Jetalpuria and Prof. Jayendra Vasani from Automobile Dept on 09-07-2020.
- 4 SSIP projects of Rs 412000/- are undergoing in Chemical Engineering Dept.
- Prof Dhaval Patel has filed the Patent on title "Adjustable stand with flexible height and angle setting" in the Indian patent Office, vide application no.: 202021044959, Date: 15/10/2020.
- Prof Dhaval Patel, Mechanical Dept., has published one patent in the Indian Patent office journal on the SSIP Project Fuel-meter with the title "Flow Rate Based Fuel Quantity Measurement and Advance SMS System for Passenger and Commercial Vehicle" through the application No. 202021029692 date of application: 13/07/2020and Date of publication: 04/09/2020, journal no. 36/2020.
- 1 patent is filed by Chemical Engineering Dept.
- Prof Dhaval Patel was felicitated by award of best mentor ship in the COVID related projects category in the online felicitation and award ceremony of LDCE start-ups and innovators supported by SSIP organized at L D College of Engineering, Ahmedabad on 25/09/2020.

Student's Achievements

- A Certificate of Merit was awarded to Rahul A. Dhanwani (Student of M.E. Structural Engineering) for securing 1st Position in the Online Quiz competition "Technical Quiz on IS 456:2000" conducted by IAStructE-CEPT University Student Chapter on 8th August 2020.
- A webinar was arranged on "How to service two wheeler vehicles at home" on 01/08/2020 via Google meet and YouTube live. As of COVID 19 situation vehicles weren't used as much, so this webinar was arranged which showed as how to service our vehicle at home. Hardik Gohil, Aman Rupareliya and Mukund Sondagar have conducted and Prof. J P Vasani and Prof. SN Patel have coordinated this Webinar. 1650 participants have actively participated in this webinar.



• Shaziya Parveen Saiyed from 2nd year achieved certificate in training through online platform (Internshala) in Graphic Design, Web Development and Digital Marketing with distinction grade, which was held for six weeks in the month of July 2020.



 Chahana Panchal from 3rd year received appreciation certificate for project PRAN and NIVARAN under SSIP on 15th August, 2020. Also our project - NIVARAN got published in the newspaper on 26th September, 2020.



- Nidhi Patel from final year was selected as a circuitry team member for GRC (GTU Robocon Team) on 26/7/2020. Basic Training completed and advanced training on going since 14/9/2020.
- Kruti Desai from final year cleared round 1 of National Engineering Olympiad (NEO) conducted in April 2020 and in second round secured 27th rank all India in 3rd year other branch category, certificate received on 30/9/2020.





- Yesha Panchal from final year Bio Medical Dept. was selected as Member at International Youth Council, United Nations.
- Malav Shah and team of Computer Engineering Dept., has secured second position in National level HACK AND REBOOT Competition organized by IIT, Kanpur. Team leader Malav Shah won the EIR Fellowship of Rs.33K per month for one team and Rs. 9 Lakh for product development.



One of the students from 5th semester, Mr. Shudra Ritesh has created a page related to the government exam taken by Gujarat government. This page has more than 500 posts which are useful for the government exam aspirant and also for the students and people who are interested in knowledge and daily current affairs. These posts include daily current affairs and important organization information and also science and technology news. It also includes the important articles of Indian constitution and important post of our country.

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• The students of Chemical Engineering Department Mr. Ronak Adroja of final year and Mr. Sanket Chauhan of pre-final year have done some creative art work during this period.



- Domadiya Yash, Ajmeriya Deep, Panchal Kaushal's patent titled "Synchronous Phase Detector for Protection of Three Phase Operated Electronic Devices" has got published on 28-08-2020.
- Nakum Hasmukh, Domadiya Yash, Ajmeriya Deep, Parmar Harshba, Panchal Kaushal's patent titled "Laser Controlled Infusion Monitoring Unit for Smart Health Care System" has got published
- Sagar Dixit, Mr. Yagnik Thanki, Mr. Naresh Mungpara's patent titled "Machine Intelligence Based Smart Camera Surveillance System" has got published.
- Nakum Hasmukh, Solanki Jigar, Parmar Ashvin, Parmar Kaushik, Agnihotri Rohit, Makwana Hardik's patent titled "Optimized Energetic Solar Dryer" has gotpublished.
- Darshan Makwana of 3rd semester has successfully completed the "QUarantIZ 2.0" quiz organized by NSSLDCE on 15th September, 2020
- Darshan Makwana of 3rd semester has successfully completed the online "AARI Quiz on Algology" with 87 % score. The quiz was conducted by Annakkili Amma Research Institute, Chennai on 2rd July, 2020.



- Darshan Makwana of 3rd semester has successfully completed the national level *E-Quiz* on "Operating System" with 75 % score. The quiz was organized by Department of Computer Science, Agarsen College, Madhavaram, Chennai
- Praful Parmar of 3rd semester has successfully completed the national level *E-Quiz* on "Operating System" with 85 % score. The quiz was organized by Department of computer Science, Agarsen College, Madhavaram, Chennai

in July, 2020.

- Darshan Makwana of 3rd semester has successfully completed the online quiz on "Production Planning and Control" organized by Department of Mechanical Engineering, Bharat Institute of Engineering & Technology, Hyderabad, Telangana on 22nd July, 2020.
- Praful Parmar of 3rd semester has attended the online webinar on "Recent Trends on Antenna", hosted by Design innovation Center and Community Innovation and Co-Creation Center, GTU on 21st August, 2020
- Praful Parmar of 3rd semester has successfully completed the Scope English Proficiency Quiz-1 with 88% score. The quiz was organized by SCOPE Department of Education, on 7th September, 2020.

- Praful Parmar of 3rd semester has successfully completed the National level E-Quiz on 'NCC and Indian Armed Forces' with 100% score. The quiz was organized by NCC Air Wing, St. Aloysius College, Mangaluru, on 11th July, 2020.
- Ruhani Makhija of 3rd semester has successfully completed the Scope English Proficiency Quiz-1 with 92% score. The quiz was organized by SCOPE Department of Education, on 3rd September, 2020.
- Ruhani Makhija of 3rd semester has successfully completed the 15 days internship program at Pratham Notebook on 15th September, 2020.
- Bhumi Sharma, a student of semester 5 from IT Department along with her team members had launched their SSIP project, named Aarogya E Care, under the guidance of Prof. Madhuri Patel.
- Under the slogan "LET'S DESIGN WITH ADOBE XD", the Tech Brush team- of the IT department students, Mistry Devansh, Soham Modi, Jay Parmar, Gautam Panchal had organised an online event with Google meet on 13 September, 2020. Tech Brush team had also announced the launch of the new series "Design with XD". This series has been created by the Team to share their experience and give some advice to aspiring designers at any level, who wish to find out more about Graphic Design and the industry. In this



- Dhruv Patel, a student of BE Sem 3 Rubber Technology has successfully completed certification of "SIX SIGMA YELLOW BELT" on 6th September, 2020 and many other great certifications related to business strategies, inter and intra personal skills and many others from reputed organizations.
- Saumya Rathod, a student of BE Sem 3 Rubber Technology has successfully completed certification of "SIX SIGMA YELLOW BELT" on 20th September, 2020.
- Maulik Chauhan, a student of BE Sem 3 Rubber Technology has successfully completed course of "COVID-19 Tackling The Novel Coronavirus" on 15th August, 2020 on future learn platform.
- Rohan Rathod, a student of BE Sem 3 Rubber Technology has successfully completed course of "SCOPE ENGLISH PROFICIENCY QUIZ-1" on 7th September,2020 conducted by Education department, Government of Gujarat.
- Yash Bhadani, a student of BE Sem 3 Rubber Technology has successfully completed course of "National Level Quiz on Python Programming" on 10th August, 2020, organized by Sigma Institute of Engineering, Vadodara, Gujarat.
- Kevin Kakadiya, a student of BE Sem 3 Rubber Technology has successfully completed course of "SCOPE ENGLISH PROFICIENCY QUIZ-1" on7th September, 2020 conducted by Education department, Government of Gujarat.
- Poonal Surani, Varun Doshi, Saurav Pandya, Premsagar Kumbhar, Tejendra Makwana participated in Nation level poster making competition (Technical) organised by P.P. Savani University on 5th September, 2020.

- Darshit Tarapara, a student of BE Sem 5 Rubber Technology participated in Video making competition held by NSS, LDCE on 24th September, 2020.
- Darshit Tarapara, a student of BE Sem 5 Rubber Technology has successfully completed the "SCOPE ENGLISH PROFICIENCY QUIZ-1" organized

by SCOPE Department of Education on 2nd September, 2020.

• Final year student of M.E., Maniar Jay filed a patent on "Multilayer Fabric for Electromagnetic Shielding" under the guidance of Dr. Ashwin Thakkar and Prof. S.K.Parmar.

Faculty Achievements

- Prof. (Dr.) C. S. Sanghvi, Prof. M. G. Vanza and Prof. C. D. Patel, Applied Mechanics Dept., were conferred Certificate of Appreciation for their commendable contribution towards activities carried out by them during the lock down period on 15th August 2020. It was phenomenal achievement for department as 3 of its faculty members were felicitated during the 74th Online Independence Day Celebration carried out at Institute level.
- Prof. D. R. Tarachandani was appointed as the Institute Level Coordinator for the Covid Testing of all the faculty members of the college. The testing program which was arranged on 5th Sep 2020 was efficiently coordinated by him with the help of all the department level coordinators under his guidance.
- Dr. C. S. Sanghvi conferred "Certificate of Achievement" to Prof. (Dr.) M.V.Shah & Prof. Poonam I. Modi during the Teachers' Day Celebration on 5th Sept., 2020, for their noteworthy contribution and best practices in engineering education during academic year.

- It was a very proud moment for the Applied Mechanics Department as "The Institution of Engineers (India) issued the Certificate of Establishment of the Students' Chapter at the Department of Civil Engineering, at L. D. College of Engineering on 10th Sep 2020. This was made possible by the relentless efforts put forward by Prof. (Dr.) R.B.Khasiya (HoD-Civil); Prof. (Dr.) C.S.Sanghvi (HoD-Applied Mechanics) and Prof. C.D.Patel (Asst.Prof, Applied Mechancis) under the able guidance of Dr. R.K.Gajjar.
- Prof. J. P. Vasani, Automobile Dept., has delivered expert lecture on "2 wheeler maintenance and service at home" on 1/09/2020, at RCTI, Ahmedabad.
- Faculty Mentor Award was given to Prof. Bhavesh Parmar in Felicitation and Award Ceremony of LDCE Startup and Innovator club organized by LDCE E-Cell supported by SSIP Student Startup and Innovation Policy (SSIP) on 25th September 2020.
- Prof. Hetal Joshiara of Computer Engineering Dept. coordinated a central level Event, HACK & REBOOT, dated 04 Sept 2020.

• Prof. Hetal Joshiara of Computer Engineering Dept. has been awarded with a Faculty Mentor appreciation for project REOLO under SSIP for noteworthy contribution during lockdown in COVID- 19 on 15th August 2020.



 Prof. Hetal Joshiara of Computer Engineering Dept. has been awarded with a Faculty Mentor appreciation for guiding REOLO HOLOGRAPHIC PRIVATE LIMITED under SSIP on 25th September 2020.



- Dr C D Upadhyay has cleared the ARPIT Examination – "Big Data Analytics for Smart Grid", held on 15th September, 2020.
- Prof. Hiteishi Diwanji delivered an expert talk on online platform on the topic "Apps that steal data" in which the discussion was about colluding and collaborating app.
- Prof. Bakul Panchal attended a webinar on Virtual Artificial Intelligence Summit-Solutions to COVID-19 on 09-05-2020 on an online platform.
- Prof. Bakul Panchal attended a webinar on Intellectual Property of New India on 16-05-2020 on an online platform arranged by GTU.

 Prof. Hetal Joshiara of Computer Engineering Dept. mentored a Team Technocrates in Smart India Hackathon 2020. Team has secured position in Top 7 in the grand finale organized on 1st, 2nd and 3rd August 2020 in the Software Edition. Problem system was given by ISRO. They provided GIS based solutions.

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SIH	This	Certificate is aw	arded to	
SMART INDIA		Hetal Joshiyar	<u>a</u>	
2020	of	team Team Tech	nnocrates	
Grand Finale	For F	Participating as	Mentor in	
1", 2" & 3" Aug. 2020	"Smart	India Hacka	thon 2020"	
Barrin	Sta elvac	Abley Tore	Annal Destrande	
Sh. Amit Khare Secretary, Higher Education Ministry of Education Government of India	Dr. Anil D Sahasrabudhe Chairman, AICTE Chairman, Organizing Committee, Smart India Hackathon 2020	Dr. Abhay Jere CIO,MIC,MHRD Organizing Committee, Smart India Hackathon 2020	Dr. Anand Deshpande Chairman and MD, Persistent System Co-Chairman, Organizing Committee Smart India Hackathon 2020	

- Prof. Bakul Panchal attended a webinar on Getting Started with Augmented Reality/Virtual Reality on 9th May 2020 on an online platform on 09-05-2020 on an online platform.
- Prof. Bakul Panchal participated in an online quiz named "National Level Quiz on NBA" arranged by P.V.Patil College of Engineering, Mumbai
- Prof. Shital Solanki attended a webinar on Intellectual Property of New India on 16-05-2020 on an online platform arranged by GTU.
- Prof. Pradip Patel attended a webinar on Accelerating Computations using MATLAB and Simulink organized by Dr. Dhruv Panchal from Mathworks India on 26-05-202
- Prof. Nirjari Desai attended a webinar on "The future of IOT, 5G and Computing" by Dr. Subhash Technical Campus, Junagadh on 14-06-2020.
- Dr. M.V. Shah has been awarded the appreciation certificate by honourable Principal Dr. R.K. Gajjar on the occasion of Independence Day, 2020.

- Dr. B.S. Sedani and Dr. N.A. Kotak have been the coinventors of the patents titled "Synchronous Phase Detector for Protection of Three Phase Operated Electronic Devices" "Laser Controlled Infusion Monitoring Unit for Smart Health Care System", "Machine Intelligence Based Smart Camera Surveillance System", and "Optimized Energetic Solar Dryer". All these patents have got published by Indian patent office.
- Dr. B.S. Sedani was awarded the appreciation certificate by AARAMBH Cell, LDCE Ahmedabad on 25th September, 2020 for all the patents published.
- Dr. N.A. Kotak was awarded the appreciation certificate by AARAMBH Cell, LDCE Ahmedabad on 25th September, 2020for all the patents published.
- Dr. P.P. Prajapati was the reviewer in the USA based Scopus indexed international journal IJAMC, IGI global, Turkey
- Dr N M Bhatt and Dr. Komal G Dave, Mechanical department, worked as Reviewers for the 2nd International Conference (Digital) on Research and Innovations in Science, Engineering & Technology, ICRISET-2020 held at Birla Vishvakarma Mahavidyalaya Engineering College, Vallabh Vidyanagar, Gujarat, India during 4th-5th September 2020.
- Dr N M Bhatt is granted extension till 18/02/2021 as member of Academic Council of Gujarat Technological University.
- Dr. Ragesh Kapadia and Prof Hardik Shukla, Mechanical department, has coordinated orientation sessions about students' chapter activities for Acrex, aQuest and about ISHRAE with Revival of LDCE Student Chapter for SY 2020-21 along with Prashantbhai Pathak - President of ISHRAE Ahmedabad chapter.
- Prof. P R Rathod, Mechanical department, had delivered an expert lecture in a webinar on "Newer Machining Methods" on 25/09/2020 on the subject "Introduction to Micromachining" at Government Engineering College, Banswara.

- Prof. S S Pathan worked as an expert evaluation committee member for the Government of Gujarat's Student Open Innovation Challenge, one of the flagship initiatives of the Student Startup and Innovation Policy (SSIP) under the aegis of the Education Department, Government of Gujarat. The committee was constituted by the Hon' Principal Secretary Madam.
- Prof. G N Sutaria, Mechanical Dept. has been felicitated for mentoring Infosys award winner Oneceptual technologies pvt. Ltd. incubated at LDCE by Aarambh cell on 25/09/2020 by Shri. GT Pandya Sir, Director of technical education.



- Prof Dhaval Patel, Mechanical department, published two books on title "Manufacturing Technology" and "Operation Research" respectively as per the revised syllabus for the students of GTU, BE Semester 5th, ATUL Prakashan, Ahmedabad.
- Prof Dhaval Patel was felicitated by Dr. R K Gajjar, Principal – L D College of Engineering with an appreciation certificate for the contribution to society through Innovative projects (COVID19 Projects) on 15/08/2020.
- Dr. Mrunalkumar Chaudhari, Mechanical dept., delivered an expert talk at Indus University on 2nd Sept, 2020 on the topic of "Strengthening Mechanisms in Metals and Alloys". Around 50 students have participated in the talk.

- Dr. Mrunalkumar D. Chaudhari, Dr. F. B. Sayyad and Dr. Janak B. Valaki have written a technical book titled "Materials and Metallurgy" published by Tech Knowledge Publications, ISBN: 9789389889925 in September 2020.
- Prof. Rupande Desai, Prof. Gnanu Bhatt and Joel Lalucherian are proudly awarded for publishing a patent on "Modification of FKM with Ultra High Molecular Weight Polyethylene for Pharmaceutical Hoses" by AARAMBH Cell, L. D. College of Engineering during September, 2020.
- Prof. Rupande Desai, Prof. Gnanu Bhatt, Prof. Bhakti Patel and Divya Jyoti are proudly awarded for publishing a patent on "Antimicrobial Silicone Rubber" by AARAMBH Cell, L. D. College of Engineering during September, 2020.
- Prof. R.N.Desai, 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 webinar on "Emulsion Polymerization of NBR and its characterization" organized by Apcotex Industries Limited and delivered by Mr. Rabin Santra, through Zoom platform on 13th August, 2020.
- Prof. R.N.Desai, 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 webinar on "Apcoflex NBR- Compounding and application" organized by Apcotex Industries Limited and delivered by Mr. Bhagaban Panda, through Zoom platform on 27th August, 2020.
- Prof. R.N.Desai, 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 webinar on "Characterization of Nitrile Rubber & its Vulcanizate" organized by Apcotex Industries Limited and delivered by Mr. Kishor Rajdeo, through Zoom platform on 3rd September, 2020.

- Dr. Mrunalkumar D. Chaudhari and Dr. Janak B. Valaki have written a technical book titled "Engineering Materials and Metallurgy" published by Tech Knowledge Publications, ISBN: 9789389889826 in September 2020.
- Prof. R.N.Desai, 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 webinar on "Transform Regular LSR into Self-Bonding LSR" conducted by Lord Corporation on 23rd September, 2020.
- Prof. G.G.Bhatt has attended webinar on "Rubber Chemicals to Improve Tire Balancing Performance and Appearance" on 11th September, 2020.
- Prof. G.G.Bhatt has attended webinar on "Bio-Based Polyols: Challenges and Opportunities in the Polyurethane Foam Market" on 10th September, 2020.
- Prof. S.J.Padhiyar and Prof. G.G.Bhatt have attended Technology Transfer webinar on "Advanced Characterization of Polymers & Rubber Compounds by Static & Dynamic Testing" on 4th September, 2020.
- Prof. S.J.Padhiyar has attended Technology Transfer webinar on "Reduce cycle Time and Eliminate Defects in Over-molding Rubber Products" on 25th September, 2020.
- Prof. R.Y.Modan has attended webinar on "Anti Defection Law in India" organized by Ministry of home affairs on 18th August, 2020.
- Prof. R.Y.Modan has attended webinar series on "Emerging trends in chemical engineering" during 28th September to 3rd October, 2020.
- 100% placement has been achieved for Rubber Technology students.

COMMUNITY ENGAGEMENT

NCC, NSS, Clubs of college, other community activities



• Tree plantation (September 28, 2020)

Tree plantation was organized by SAE LDCE Club on 28/09/2020. Faculty members and students gathered to plant saplings in the campus, with each of them adopting a plant and taking pledge to take carefor the growth of the plant. The saplings were fenced to provide protection with posters having the name of the person taking care of the plant. While this drive was conducted social distancing was not neglected and all the norms related to the prevention of spreading of covid-19 were followed.

Dr. S S Pathan designed a course curriculum "Basics of Remote Sensing for the school children" (Std. 8 to 12), on request from an NGO. The intention was to inculcate interest among the school kids and motivate them to move towards space research. They said online course will be taught by the scientists of ISRO upon acceptance to the course suggested.



Art From Heart Contest With VoSAP

(July 10, 2020 to August 31, 2020)

NSS unit of LDCE collaborated with Voice of Especially Abled People in organizing an "International Art **Competition-Art From Heart**" on online platform. This competition included various categories and thus there was no restriction for participation. Participants were supposed to present their ideas about the theme 'Disability' through their art in the form of painting or digital art. More than 4000 people from more than 28 actively countries participated in this online art contest.









Art From Heart Contest With VoSAP (July 10, 2020 to August 31, 2020)

During the situation of COVID-19 pandemic, NSS LDCE did not fall back from the responsibility of Saving the Environment. The Volunteers of NSS and NCC came forward to save the environment by taking the initiative of "Tree Plantation" in the college campus. They planted 15+ different varieties of saplings which included plants like Gugal, Dadam, Chandan, Charoli, etc. In this event, the Principal of L.D.C.E., Dr. R. K. Gajjar along with Dr R B Khasiya, Head, Civil Engineering Department, NSS–NCC Program Officer Major (Dr.) C.S.Sanghvi and HODs of various departments, planted the trees with a pledge. Also, they took the initiative by adopting one of the trees which they had planted. This means that they will take care of that particular plant by regularly watering it once in a week and take the other measures of care.

COVID-19 TESTING (September 5, 2020)

"COVID-19Testing" was organized by the institute on September 5, 2020 (Teachers' Day) at L.D. College of Engineering. It was coordinated by Prof D R Tarachandani & Team. In this event, all the department faculties, staff, security guards, workers, and some of the hostel students passed through the Covid Test. In total, around 309 Covid Tests were done out of which only one tested positive. The volunteers of NSS unit of LDCE have given services as volunteer. There were four counters for Covid Testing, two of which were in 301 (Civil Drawing Hall) and another two in 401(Mechanical Drawing Hall) so that social distancing could be maintained.





7th Semester student (Plastic Technology) Jadav Jenish has undergone online internship as a Community Influencer at Unschool (UCI).

PUBLICATIONS/PAPERS PRESENTED

- Dr. Rajul K. Gajjar, Prof. Poonam I. Modi, & Vidhi Modi published a research paper entitled "REVIEW PAPER ON MECHANICAL PROPERTIES OF MASONRY UNITS", in Compliance Engineering Journal; UGC Care approved Group II Journal, Volume 11, Issue 6, ISSN: 0898-3577 on June 2020.
- Karan Patel and Prof. Bhavesh Parmar published a research paper entitled "ASSISTIVE DEVICE USING COMPUTER VISION AND IMAGE PROCESSING FOR VISUALLY IMPAIRED; REVIEW AND CURRENT STATUS, DISABILITY AND REHABILITATION" in Assistive Technology, Taylor and Francis, 2020, DOI: 10.1080/17483107.2020.1786731
- Karan Patel and Prof. Bhavesh Parmar published a research paper entitled "ENHANCING RADIOGRAPHIC DENTAL IMAGE VISUALISATION WITH COLOURISATION AND GRAPHICAL USER INTERFACE", Journal of Image Processing & Pattern Recognition Progress, 2020; 7(2): 7–19p. DOI:

http://dx.doi.org/10.37591%2Fjoipprp.v7i2.2471

 UttamVaghani, Prof. Yogita Parikh, Snehal Kasavala, Priya Vadoriya published a research paper entitled "DESIGN AND DEVELOPMENT OF ASSISTIVE DEVICE FOR VISUALLY IMPAIRED PERSON", Compliance engineering journal, UGC care group-II, ISO: 7002-2018, volume 11, issue-8, August 2020.

DOI: 16.10089.CEJ.2020.V1118.285311.3280

- Prof. Hetal Joshiara from Computer Engineering Dept. and Dr. Chirag S. Thaker published a paper "PERFORMANCE OPTIMIZATION IN BIG DATA PROCESSING USING ENHANCED SPECULATIVE APPROACH" in Journal of Critical Reviews ISSN-2394-5125Vol7, Issue 13, September-2020
- Prof. Jay K Dave of Computer Engineering Department, Avijit Dutta, Parvez Faruki, Vijay Laxmi, and Manoj Singh Gaur have published a paper on "SECURE PROOF OF OWNERSHIP USING MERKLE TREE FOR DEDUPLICATED STORAGE" in Automatic Control and Computer Sciences 54, no.4 (2020): 358-370.

- Prof. Nikunj H Domadiya of Computer Engineering Department has published a paper titled "IMPROVING HEALTHCARE SERVICES USING SOURCE ANONYMOUS SCHEME WITH PRIVACY PRESERVING DISTRIBUTED HEALTHCARE DATA COLLECTION AND MINING" in Journal: Computing, Publisher Springer Vienna, DOI <u>https://doi.org/10.1007/s00607-020-00847-0</u>
- Prof. Parth Dave of Computer Engineering Department has published a paper titled "SATELLITE IMAGE CLASSIFICATION WITH DATA AUGMENTATION AND CONVOLUTIONAL NEURAL NETWORK" in Advances in Electrical and Computer Technologies, http://doi-org-443.webvpn.fjmu.edu.cn/10.1007/978-981-15-5558-9_9, Springer, Singapore.
- Dr. Purvi Ramanuj and Palak Chatwani, an ME scholar along with Shivani Shah, presented a paper on the subject "VOLUME RENDERING FOR WEATHER DATA USING RAY-CASTING ALGORITHM ON WEB" at National Level Research Conference "2ND NATIONAL CONFERENCE ON RESEARCH TRENDS IN INFORMATION AND COMMUNICATION TECHNOLOGY".
- Prof. Mital Panchal, along with Dr. Nimisha Patel, presented a paper on the subject "KEYWORD SEARCH SCHEME OVER ENCRYPTED CLOUD DATA" at International Journal AEGAEUM.
- Prof. Shital Solanki, along with Ms. Sweety Sindhav, an ME scholar, presented a paper on the subject "REVIEW OF NON-LINEAR FILTERS FOR NOISE REMOVAL IN DIGITAL IMAGES" at International Level Research Conference "INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS".
- Prof. Alka Patel and Hinal Patel, an ME scholar, presented a paper on the subject "A SURVEY ON DIFFERENT TECHNIQUES AND ALGORITHMS FOR IMAGE IN PAINTING" at National Level Research Conference "INTERNATIONAL JOURNAL OF CREATIVE RESEARCHTHOUGHTS".

- Dr. Purvi Ramanuj and Vaibhavi S. Ghelani, an ME scholar, presented a paper on the subject "BIG DATA ANALYTICS SYSTEM FOR HEALTH CARE: A LITERATURE REVIEW" at National Level Research Conference "2ND NATIONAL CONFERENCE ON RESEARCH TRENDS IN INFORMATION AND COMMUNICATION TECHNOLOGY".
- Dr. Purvi Ramanuj, along with Mr. Nikul Jayswal, presented a paper on the subject "SOFTWARE-DEFINED NETWORK: IMPORTANCE AND ISSUES" at National Level Research Conference "2ND NATIONAL CONFERENCE ON RESEARCH TRENDS IN INFORMATION AND COMMUNICATION TECHNOLOGY".
- Prof. Vidisha Thakkar and Vaibhavi Prajapati, an ME scholar, presented a paper on the subject "A SURVEY ON CLOUD SYSTEM FAILURE PREDICTION" at National Level Research Conference "2ND NATIONAL CONFERENCE ON RESEARCH TRENDS IN INFORMATION AND COMMUNICATION TECHNOLOGY".
- Prof. Pradip Patel, along with Mr. Narendra Patel, presented a paper on the subject "COMPARISON OF VARIOUS CLASSIFIERS FOR INDIAN SIGN LANGUAGE RECOGNITION USING STATE OF THE ART FEATURES" at International Level Research Conference "CONGRESS ON INTELLIGENT SYSTEMS" organized by Soft Computing Research Society.
- Prof. Pradip Patel and Vrustik Patel, an ME scholar, presented a paper on the subject "A SURVEY ON VISION-BASED REAL-TIME SYSTEM FOR INDIAN SIGN LANGUAGE RECOGNITION" at National Level Research Conference "2ND NATIONAL CONFERENCE ON RESEARCH TRENDS IN INFORMATION AND COMMUNICATION TECHNOLOGY".
- Dr. P.J. Gundalia and Mohammedshakil Malek published paper on "VALUE FOR MONEY FACTORS IN INDIAN PUBLIC-PRIVATE PARTNERSHIP ROAD PROJECTS: AN EXPLORATORY APPROACH" in Journal of Project Management, in September 2020

- Prof. Swati Patel and Keshani Vyas, an ME scholar, presented a paper on the subject
 "METEOROLOGICAL BIG DATA MINING: A SURVEY" at National Level Research Conference "2ND NATIONAL CONFERENCE ON RESEARCH TRENDS IN INFORMATION AND COMMUNICATION TECHNOLOGY". The paper got published in "Test Engineering and Management".
- Hetal R. Khasiya, Rena N. Shukla, Amardeep Singh B. Bhalla published paper on "ANALYSIS OF PARAMETERS AFFECTING PRIVATE VEHICLE OWNERSHIP BY CITIZENS IN URBAN AREA" in 2nd International Conference (Digital) in Science, Engineering & Technology ICRISET-2020 held at B.V.M. Engineering College, Vallabh Vidyanagar, in September 2020
- Rena N. Shukla, Kavisha Shah published paper on "ANALYSIS OF PRIVATE VEHICLE OWNERSHIP AND IPT VEHICLE SCENARIO IN AHMEDABAD" in 2nd International Conference (Digital) in Science, Engineering & Technology ICRISET-2020 held at B.V.M. Engineering College, Vallabh Vidyanagar in September 2020
- Rena N. Shukla published paper on "ANALYSIS OF PASSENGER TRIPS BY PUBLIC TRANSPORT-BUS TRANSIT IN WEST ZONE OF AHMEDABAD" in 2nd International Conference (Digital) in Science, Engineering & Technology ICRISET-2020 held at B.V.M. Engineering College, Vallabh Vidyanagar in September 2020
- Rena N. Shukla & Dhruv Trivedi published paper on "ANALYSIS OF PARKING DEMAND AND SUPPLY FOR RESIDENTIAL LAND USE" in 2nd International Conference (Digital) in Science, Engineering & Technology ICRISET-2020 held at B.V.M. Engineering College, Vallabh Vidyanagar in September 2020
- Rena N. Shukla & Daltej Singh Gill published paper on "ADVANCE TECHNIQUE FOR POTHOLE REPAIR USING RECYCLED MATERIALS AND ASPHALT BASED WATERPROOF FIBER REINFORCED MEMBRANE" in Journal of Construction and Building Materials Engineering in September 2020.

- A research paper, "A CLUSTERING ALGORITHM
 FOR CONNECTED ENTITIES IN ATRANSACTIVE ENERGY SYSTEM FOR OPTIMAL BATTERY USAGE", has been presented in IEEE Conference - SEGE 2020, Ontario Tech University, Canada on 13th August, 2020 by Dr. C. D. Upadhyay, Jeet Dhoriyani and Renison Macwan.
- Dr. N. M. Bhatt published a paper titled "NUMERICAL INVESTIGATION OF EFFECT OF TEMPERATURE PROFILE IMPOSED ON THE CRUCIBLE SURFACE ON OXYGEN INCORPORATED AT THE CRYSTAL MELT INTERFACE FOR 450 MM DIAMETER SILICON SINGLE CRYSTAL GROWTH IN PRESENCE OF CUSP MAGNETIC FIELD USING CZOCHRALSKI TECHNIQUE" with Mitesh S Vegad, Nilesh Bhatt, Silicon (2020), doi.org/10.1007/s12633-020-00655-3
- Dr. N. M. Bhatt published a paper on "ASSESSMENT OF MANGANESE OXIDE AND COBALT OXIDE CATALYSTS FOR THREE WAY CATALYTIC CONVERTER" with Charula Patel, Nilesh Bhatt, Srinivas Palanki, Catalysis in Industry, Vol. 20 (4), 2020, 286-302, DOI 10.18412/1816-0387-2020-4-286-302
- Dr. N. M. Bhatt, along with Chetan Vora, Virang Oza, Nilesh Bhatt, published a paper titled "REVIEW OF PASSIVE HEAT TRANSFER AUGMENTATION TECHNIQUES FOR SOLAR AIR HEATERS", Journal of Critical Review, Vol. 7 (19), 2020, pp. 8404-8419
- Prof. S. S. Pathan published a journal paper titled "PERFORMANCE EVALUATION AND COMPARISON OF MEASURED SOUND INSERTION LOSS OF CORRUGATED PLATES" in Journal of Acoustical Society of India.
- **Prof. Gnanu Bhatt** and **Daxit Soni** have presented apapertitled "STATIC ANALYSIS OF AUTOMOTIVE WHEEL RIM OF DIFFERENT DESIGNS" in the International Conference on Smart Sustainable Materials and Technologies organized on 12-13 August, 2020.

- Dr. Komal G. Dave and Maulik Patel, Ph.D scholar have published technical paper on title "A REVIEW ON TOOL ROTATIONAL SPEED AND TOOL TRANSVERSE SPEED EFFECTS THE MECHANICAL PROPERTIES OF FRICTION STIR WELDING" in Zeichen Journal, Vol 6, Issue 9, Sept 2020,ISSN No: 0932-4747, Impact factor 4.7
- Faizal Belim, Vijay Teraiya and Dr. Pankaj Rathod have published a paper on "EXPERIMENTAL INVESTIGATION OF JOINT STRENGTH FOR VARIABLE JOINT DESIGN DURING BRAZING OF ALUMINIUM TO COPPER" in Journal of Emerging Technologies and Innovative Research (JETIR), (ISSN-2349-5162), July 2020, Volume 7, Issue 7, pp. 344-353.
- Hardik Nadiyadi, Dr. Hiren Gajera, Rajnikant Bidajwala, Kumar Abhisek and Dr. Komal G Dave have published technical paper on title "EFFECTS OF POWDER BED FUSION PROCESS PARAMETERS ON HARDNESS FOR INCONEL 718" in Materials Today: Proceedings, Elsevier publication, https://doi.org/10.1016/j.matpr.2020.06.388, Online July 2020
- Prof. M. K. Vyas and Mechanical Engineering students Dhruv Panchal, Dhrumil Panchal, Anand Desai, Sachin Patel have presented a paper titled "PROCESS PARAMETERS OF SINGLE SCREW PLASTIC EXTRUSION MACHINE – REVIEW" in ETEMR 2020 Econference held by SPEC in Sept, 2020.
- Prof. P. M. Mistry presented a paper on "RECENT DEVELOPMENTS IN HIMALAYAN NETTLE FIBRE AND ITS COMPOSITES – A REVIEW" at 5th International Conference on INDUTECH 2020 organized by PSG College of Technology, India and The M.S. University of Baroda, Gujarat during 21st to 23rd August, 2020.
 - Prof. Sunil Padhiyar and Parth Dhrangdhariya have published a research paper titled "HOMOPOLYMER
 BASED MAGNETORHEOLOGICAL ELASTOMER" in the International Journal of Scientific Research in Science, Engineering and Technology, Volume 7, Issue 5 during September-October, 2020.

Professional Development

Values/ Module

of SIP

(STTP/FDP/Workshop/Conference etc. attended only) Title Name of Organized by Sr. Department Duration No Faculty 1 Innovation Prof. C.D.Patel **Applied Mechanics** Online AICTE Training 24-08-2020 to 28-08-Prof. B R.Patel 2020 Management & Learning (ATAL) 2 Concrete Prof. Kamini A. Online Mode under 21-09-2020to 25-09-**Applied Mechanics** Technology and Parmar aegis of AICTE 2020 Sustainable Prof. C.D.Patel Training&Learning(Construction Prof. Poonam I. ATAL) Academy Practices Modi Creativity. Prof. V. G Trivedi Automobile AICTE Training and 3 24/08/2020 -Innovation & Learning(ATAL) 28/08/2020 Entrepreneurshi Academy's virtual GTU FDP Online p and its Relevance in Educational Practice 4 Inculcating Prof. B. H. Kadiya Automobile AICTE 24/08/2020 -Universal Human 28/08/2020 Values 5 Scientific Prof. D. J. Parmar Automobile SWAYAM MOOC 20/07/2020 -Computing using IIT Delhi 09/10/2020 MATLAB Universal Human Prof. J. P. Vasani Automobile AICTE 24/08/2020 -6 Value on the 28/08/2020 theme "Inculcating Universal Human Values in Technical Education" 7 Orientation to Prof. P. L. Gohel Biomedical L.D. college of Engg. 24/09/2020 Universal Human Engineering 1 Day

8 AICTE Universal Prof. Bhoomi Trivedi Computer Engg. AICTE	19-23 August,20
Human Values in Prof. Jay K Dave Education	J
9 Nurturing Prof. Hetal Joshiara Computer i-Hub , Gujarat Innovation and Startup Ecosystem Innovation and	08/9/2020 to 24/10/2020
10Latest Trends inProf. Hetal JoshiaraComputerGovernment MC/IoTEngineeringCollege, Maninage	
11 Swayam MOOC Dr. Anjali Bishnoi Chemical Swayam MOOC "Accreditation of Prof. H.N. Pandya Engineering Engineering Undergraduate Prof. R. S. Ruperi Engineering Engineering Prof. V. V. Gojiya Frogram"	27/01/2020 to 20/04/2020 completed on 30/09/2020
12 Nurturing Prof. T.S. Rajaraman Chemical iHub Ahmedabac Innovation and Engineering Startup Ecosystem	d 08/09/2020 to 24/10/2020
13 Creativity, Prof. R. S. Ruperi Chemical ATAL-AICTE online Innovation And Engineering FDP Entrepreneurship And Its Felevance In Educational Practice" Felevance	ne 24/08/2020 to 28/08/2020
14 FDP on UHV DR. PURVI IT AICTE RAMANUJ, PROF.SWATI PATEL, PROF.MITAL PROF.MITAL PANCHAL, PROF. JAIMIN CHAVDA CHAVDA	10-8-2020 To 14-08-2020
15 AICTE 5-day FDP- PROF. MADHURI IT AICTE SI UHV-1 Online PATEL Workshop	05-09-2020 To 09-09-2020
16National webinarProf. S A SaraswatMechanicalParala Maharajaon CryogenicEngineering ColleEngineeringBerhampur, Odis(NWCE – 2020)Engineering	ege, 2020
17ICRISET2020Prof. M K VyasMechanicalBVM, VallabhE ConferenceVidyanagar	04-09-2020 to 05-09- 2020
18 ETEMR 2020 E- Prof. M K Vyas Mechanical SPEC, Vallabh conference Vidyanagar	15-09-2020

19	Research Paper and research proposal writing	Prof. A G Momin	Mechanical	Online –NITTTR Bhopal	31-08-2020to04-09- 2020
20	Comprehensive Online (IPR)	AllFacultyMembers	LDCE	Gujarat Student Startup and Innovation Hub (i - Hub)	06/07/2020 to 14/09/2020
21	UDAYM E- Content Development course"	All Faculty members	LDCE	KCG, Ahmedabad	28/07/2020 to18/8/2020
22	Recent Advances in Forensic Analysis of Sub and Super Structures	Prof. R. N. Shukla Prof. J. S. Kamble	Civil	Online hosted by Velagapudi Ramkrishna Siddhartha Engineering College,Andhra Pradesh (AICTE approved)	24/8/2020 to 29/8/2020
23	FDP on Universal	U.P.NIGAM		Online Organized by	19-08-2020to23-08-
	Human Value	Sudhanshu S. Dixit		AICTE.	2020
24	Geospatial Inputs for Enabling Master Plan Formulation	Sudhanshu S. Dixit		IIRS, Dehradun, India	27-07-2020to31-07- 2020
25	Remote Sensing Applications in Agricultural Water Management			IIRS, Dehradun, India	03-08-2020to07-08- 2020
26	SWAT Modelling			Online Organized by NIH Roorkee, India	21 st - 25 th September 2020
27	Advanced Research Trends of Satellite Image Processing in Land Surface Monitoring	Sudhanshu S. Dixit		Online by HRDC, Integral University, Lucknow, UP, India	24-28 Aug, 20
28	FDP on Universal human values	Dr. N. H. Pancholi, Prof. D. M. Chandra, Prof. N Pranami, Prof. A. G. Momin	Mechanical	AICTE	5-9 Aug '20

29	FDP on Universal human values	Prof. Yagni Rami Prof. Hetal Panchal	Environment	AICTE	19-23 Aug '20
30	E-Content Development Course	All teaching staff	EC	Online Platform	28-7-20 to 08-08-20.
31	Antenna and Microwave Fundamentals, Theory, Modelling, Test and Application for Space, Air and Ground Systems.	Prof. M.C. Sahoo Prof. S.K. Rana			26-09-20 to 30-09- 20.
32	Online workshop on "Inculcating Universal Human Values in Technical Education"	Prof. Kintu P. Jain Prof. Stuti R. Shah	Plastic Technology	AICTE	10-08-2020to14-08- 2020
33	Online "Nurturing Innovation and Startup Ecosystem"(NISE) certificate course	Prof. Hetal C. Shah		i- Hub	12-09-2020to24-10- 2020
34	Universal Human Values	Prof. R.Y.Modan	Rubber Technology	AICTE (Online Platform)	5th August to 9th August, 2020

M.E Dissertation

• Computer Engineering Dept

Sr.	Name	Title	Guide
No			
1	BhattMeghnaJayeshbhai	Efficient and confidentiality preserving proof of ownership for deduplicated cloud storage system	Prof. J. K. Dave
2	Bhusara Archanakumaree Dineshbhai	Sentiment Analysis on Social Media	Prof.P.V.Pancholi
3	Pancholi Deep Dharmeshbhai	Secure and efficient key management for deduplicated cloud storage system	Prof. J. K. Dave
4	Aditya R Mishra	Text summarization	Prof. B. A. Oza
5	Dhritesh Patel	Live Subtitle generation	Prof. P. R. Dave
6	Shah Rohan Jigneshkumar	Face detection & Recognition with small amount of data Prof. M. K. Shah	Prof. H. A. Joshiyara
7	Goswami Jaimin Jagdishgiri	Deep learning based conversational question answering system	Prof. M. K. Shah
8	Khushbu AChauhan	Lightweight intrusion detection system for IoT botnets using ML	Prof. B. H. Trivedi
9	Shah Poojan Vipulbhai	Prediction of missing sensor data using ML for IoT	Prof. T. A. Champaneria
10	Mehta Shilpa Vinod	Improving a QoS parameter for Load Balabncingin CloudComputingEnvironment	Prof. H. A. Joshiyara
11	Patel Jiniajitbhai	Enhancingaloadbalancingalgorithm with the use of data deduplication	Prof. R. Jaiswal
12	Rana Zalak Nileshbhai	Improve performance of data privacy in electronics health records system using blockchain	Prof. P. G. Patel
13	Tandel Daksh Ashokkumar	Cloud Computing Load Balancing using Genetic and Index Approach	Prof. Y. B. Patel
14	Namrata Ggovind Ambekar	Use of Comprehensive Technique for Preserving Privacy in Data Mining	Prof. R. Jaiswal
15	Patel Hemalben Mukeshkumar	Privacy preserving association rule mining in vertically partitioned data	Prof. N. H. Domadiya
16	Patel Sanket Chandrakant	Pothole detection using enhanced Object detection	Prof. P. D. Salot
17	Tadvi Anjaliben Arvindbhai	Reducing the complexity in lot device with lightweight Cryptography Technique /Algo	Prof. Z. Y. Noorani

• Chemical Engineering Dept

Sr. No	Name	Title	Guide
1	Prajapati Ankit	Synthesis of nanosheet for lithium Ion batteries.	Prof. B.Domadia
2	Prajapati Mayankkumar Bhagvanbhai	Separation of azeotropic mixture of alcohol - water using salts/ionic liquid at atmospheric pressure	Prof. R.P. Bhatt
3	Sauravkumar Rajeshkumar Bhatiya	Thermodynamic Analysis of Bio-butanol Reforming Processes for PEMFC Applications: A Simulation Study	Prof. Ronak Patel
4	Kanksha Mehta	Studyofutilization of industrial waste in manufacturing of building materials	Prof.C G Baghchandani
5	Prajapati Mitulbhai Harkishnbhai	Techno-Economic Analysis Of Geothermal Desalination System	Dr. Sachin P. Parikh
6	Tala Manthan Jentibhai	Optimization of gas flow in city gas distribution	Dr. Sachin parikh
7	Mahera Dvarkeshbhai Bhalabhai	Microbubble cavitation as a novel technology for wastewater treatment	Prof. S.R.Shah
8	Patel Harshal Rajeshkumar	Synthesis Of Heterogeneous Catalysts And Their Application For Biodiesel Production	Prof. Hiral N.Pandya
9	Patel Rupal	Modification of surface, physical and chemical properties of activated carbon for effluent treatment	Prof. Amar Vaghela
10	Patel Snehal Kamleshbhai	Black TiO ₂ based photocatalysts for waste water remediation	Prof. T. S. Rajaraman
11	Jay Hasmukhbhai Bhalsod	Recovery of Heavy Metals from E-Waste	Prof. Nikita Ambegaonkar
12	Panchal Harshkumar Amulbhai	Application of ionic liquid as draw solute in natural osmosis	Prof. S.M.Dutta

Mechanical Engineering Dept

Sr. No	Name	Title	Guide
1	Shah Parth Kamleshkumar	Design of 2-stream (He/2-phase N2) plate - fin heat exchanger and development of design software	Dr. A. K. Sahu Prof.R.O.Paliwal
2	Prajapati Vijaykumar Tribhovanbhai	Development of sample holder attachment to measure thermoelectric power by seeback effect at 77 k	Prof. U. S. Joshi Dr. J. M. Patel
3	Shah Jaykumar Bhavyakant	Thermal analysis and development of Cryogenic charcoal adsorber for TIFR	K.V.Srinivasan Prof. H. A. Shukla
4	Kasundra Navneetkumar Dineshbhai	Numerical analysis of geysering effect in transfer pipe of cryogenic propellent with different two-phase flow models	Dr.R.G.Kapadia Prof.H.A.Shukla
5	Jangid Pintu Laxminarayan	Development of a layout of piping and valves for cold box of helium refrigeration plant of cooling power about 1 kw at ~15 k	Dr. A. K. Sahu Prof. S. A. Saraswat
6	Patel Nirav Bharatbhai	Design and development of cryostat setup for thermoelectric power measurement	Prof. U. S. Joshi Dr. J. M. Patel
7	Belim Faizal	Experimental investigation of joint strength for variable joint design during brazing of Aluminium to Copper	Dr. P. R. Rathod
8	Hardik Nadiyadi	Experimental investigation of selective laser melting for inconel718	Dr. H. M. Gajera
9	Jay Pandya	Use of viscoelastic damping for the dynamic design of an automotive structure	Dr. S. S. Pathan
10	Sumit Mori	Improving the design of a wing of an ultra- light aircraft and its analysis with & without stringers using CAD/CAE technologies	Prof. Y. D. Vora
11	Vijay Teraiya	Investigating the effect of change in various process parameters on the mechanical and metallurgical properties of a brazement with Aluminium 6061 as the base material	Prof. M. M. Makwana Dr. P. R. Rathod
12	Dishank Upadhyay	Experimental investigation of hot turning methodology for hard to cut material	Dr. K. G. Dave

13	Kateja Kinnari (180280703007) (Instrumentation & Control Branch)	Development of Data acquisition system to capture vibration signature for health monitoring of rotating machines.	Dr. S. S. Pathan
14	Dave Madhviben Jayendrakumar	Investigation of performance and Emission of various blends of Algae oils with Diesel Engine under varying injection system	Prof. G. N. Sutaria
15	Jaiminkumar Jayantibhai Gadhiya	Application of Shainin® Method as Root Cause Analysis Tool for Drop in Two Wheeler Fuel Economy	Prof. D. U. Panchal
16	Gardhariya Nareshkumar Jayeshbhai	Study and development of diesel particulate filter to reduce particulate matter particles from diesel engine emission.	Prof. S. N. Patel
17	Jayrajsinh Aniruddhasinh Gohil	Numerical Analysis of different configurations of fins using CFD for application in IC Engine	Prof. Mayur Makwana
18	Joshi Dixitkumar Ashokbhai	Exhaust Emission reduction in compression ignition engine using fumigation technique fuel with alcohol	Prof. M. A Shaikh
19	Khanpara Harshkumar Vinodbhai	Design optimization of single plate clutch	Prof. H. P. Patel
20	Merja Mayurkumar Gordhanbhai	Study on Reduction Characteristics of Photolytic Based TiO2 Catalytic Convertor on Engine Exhaust Gases	Prof. S. K. Dabhi

21	Vaishanav Mayurkumar Parshuram	Investigation Diesel particulate filter behaviour using alcohol as fuel in Diesel Engine. (Simulation and optimization of bus chassis in different dynamic loading condition)	Prof. V. G. Trivedi Prof. M. A. Shaikh
22	Saurabh Kirad	Effect and analysis of different injection pressure on the performance and exhaust emission of four stroke diesel engine fueled with hydroxygen as an additive in diesel.	Prof. R. J. Jani Prof. S. K. Dabhi
23	Jay Panchal	Investigation of variable flow of hydroxyen addition effects on performance and emission of four stroke diesel engine.	Prof. R. J. Jani
24	Vyas Monika K	Combined Effect of orifice plate diameter and injection pressure on performance of C.I. Engine fueled with mixture of various Bio-Diesel and diesel blends using response surface method	Prof. V. D. Sonara

• Civil Engineering Dept

Sr. No	Name	Title	Guide
1	eel Panchal	Estimation of Level of Service of AMTS Routes	Prof. V. J. Chitaria
2	Ishan Patel	Feasibility of Providing Pedestrian Facility at Mid-block	Prof. V. J. Chitaria
3	Yash Shah	Estimation of Saturation Flow at Signalized Intersection Under Mixed Traffic Condition in Ahmedabad City	Prof. V. J. Chitaria
4	Mer Vivek Ramjibhai	Travel Time and Congestion Analysis - A Case Study of Ujala Circle (S.G. Highway, Ahmedabad)	Prof. V. R. Patel Prof. AK Patel

5	Shivani Dineshbhai Patel	A Study on Improving Conventional Mix of Flexible Pavement using Additive	Prof. V. R. Patel
6	Rohan Gupta	Travel Time Reliability of Bus Rapid Transit System in Ahmedabad	Prof. V. R. Patel
7	Jayesh Sharma	Development Of A System For Estimating The Real Time Hydraulic Characteristics Of Canal/River Using Suitable Modern Approach	Dr.R.B.Khasiya Prof. U P Nigam
8	Pratik Nanavati	Simulation Of Rainfall Data And Water Level Using Ann And Fuzzy Logic For Sabarmati River, Ahmedabad District	Dr.V.M.Patel Prof.UPNigam
9	Pooja Patel	High Inflow Mitigation By Designing The Storm Drainage Network Of Navrangpura, Ahmedabad	Prof. N. N. Borad Prof. UP Nigam
10	Chirag Parmar	Experimental Study Of Flows At A Breached Levee	Dr. V.M.Patel Prof. S.S.Dixit
11	Pranjal Ranpura	Design of traffic actuated signals based on queue length for heterogeneous Traffic	Dr. P. J. Gundaliya
12	Chetan Gothaliya	Development of Prediction model for vehicular emission at selected intersection of Ahmedabad city	Dr. P. J.Gundaliya Prof.J.S.Kamble
13	Vivek Solanki	Evaluating lateral friction parameter for design of horizontal curves	Dr. P. J. Gundaliya Prof. Dipika Gupta
14	Vikas Gajjar	Data Acquisition system for onboard emission monitoring of moving vehicles.	Dr. P. J.Gundaliya Prof. J. S. Kamble

• IC Dept

Sr. No	Name of student	Title	Name of Guide
1	Aditya Chaudhari	Driver's Health Management System with artificial intelligence	Dr. A. K. Shah
2	Devanshi Jani	Printed Circuit Board defect detection using Image Processing	Dr. R. C. Patel
3	Yash Kansagara	Integrated frame work for data driven process monitoring and diagnosis system using machine learning and cloud computing	Prof. V. P. Patel
4	Himanshu Parmar	Design of hybrid PID plus fuzzy control for inner loop and outer loop control of dc motor	Prof.U.V.Shah
5	Maulin Patel	Identification of human emotions by facial expression using artificial intelligence techniques.	Mrs. M. C. Patel
6	Harshit Raval	Sound characterization and its application in fault identification	Dr. M. T. Thakkar
7	Palak Patel	Application of Deep Learning in Respiratory Diseases Diagnosis	Dr. M. T. Thakkar
8	Sana Vohra	Artificial Neural Network based ECG analysis for Arrhythmia Detection	Mrs. V. V. Patel
9	Shersiya Trupti	Performance Evacuation of text blurred image restoration on embedded platform	Dr. R. C. Patel
10	Maharsh Thaker	Application development of Auto tuner for PID controller tuning with machine learning and optimization techniques on remote server using cloud computing	Prof. V. P. Patel

• Textile Engineering Dept

Sr. No.	Name of Student	Title	Name of Guide
1	Maniar Jay	To Study Electromagnetic Shielding Effectiveness of Multilayer Textile Fabric	Dr. Ashwin Thakkar and Prof. S.K.Parmar
2	Mali Bhavin	To study effect of layers and braid angle for basic mechanical properties of solid braided composite structure made up of high tenacity polyester	Dr. Ashwin Thakkar and Prof. H.J.Jaiswal
3	Parapuram Selin	To Study the Effect of Structural Parameters of Geogrid Fabric on Evaluation of Soil-Fabric Interface Friction in Reinforced Earth Wall	Dr. Ashwin Thakkar
4	Vala Ankit	To Study Effect of Different Weft Count, Proportion of Elastane Fibre and Weave on Physical and Stretch Properties of Denim Fabric	Dr. Ashwin Thakkar and Prof. S.K.Parmar
5	Deshmukh Sagar	Evaluation of Physical Properties of Kenaf Fibre Reinforced Concrete	Prof. D.V.Bihola

• EC Engineering Dept

Sr. No.	Name of Student	Title of Dissertation	Guide
1.	Apoorva	Different placement strategy of low power component and its impacts on lower technology node	Prof. K.V. Patel
2.	Bhatt Keyuri Nitinkumar	Enhancement of ATPG and simulation at block level with target test coverage	Prof. A.B. Upadhyay
3.	ChavdaTrushaben	Speech De-noising Using Artificial Intelligence	Prof. K.G. Vaghela
4.	Gadge MinalAnil	Algorithms for the next generation 5G mobile system	Dr. B.S.Sedani
5.	Luhar Jigarkumar Ramesh	Impact of Physical Cell Placement of Floor-plan stage on Design in Physical Design	Dr. S.B. Prajapati
6.	Nikeetabahen Manubhai Bhoi	Floor-plan optimization with pin placement strategy	Prof. S.K. Rana
7.	Prasad Swati Baleshwar	Impact of physical cell in signoff stage	Dr. S.B. Prajapati

8.	Rana Jigna Shankarbhai	YIELD improvement using DFM technique	Prof. S.K. Gonsai
9.	Rathod Ajay	Image forgery	Prof. K.R. Sheth
10.	Ray Yesha Jitendrabhai	Impact of Macro Placement on Design Qor in Physical Design	Prof. S.L. Bharvad
11.	Solanki Deep Jitesh	Enhancement of DFT-ATPG Techniques at Lower TechnologyNode.	Dr. P.P. Prajapati
12.	Susmita Bera	Importance of Different Checks for Better QoR in Physical Design	Dr. M.V.Shah
13.	Vadher Deepkumar Kishorbhai	DFT Methodology for pattern generation with Low Power	Dr. M.V.Shah
14.	Vadher Payalben Shardulbhai	Lower geometry DRC challenges and solutions	Dr. Mihir Shah