

TECH PULSE

The Quarterly Newsletter by L. D. College of Engineering



ABOUT THE INSTITUTE

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

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OUR MILESTONES

VISION

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



MISSION



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



FROM THE DESK OF PRINCIPAL

Dear Students and Faculty Members,

LDCE is celebrating 75 years of its remarkable journey excellence this year starting June 20, 2022. We have already started the celebrations in a unique way by unveiling the LDCE@75 logo in the gracious presence of honorable ministers and other dignitaries. We have done a lot of brainstorming to make this year a memorable one. Working on the motto of "Envisioning Future, Celebrating Legacy" we have an extremely interesting year planned with the help of students, faculties, and Alumni. It's time to dare to dream big and turn it into a reality. A time to think out of the box! It is time to start working on emerging technologies. It is time to reinvent LDCE. And we have already initiated it by the curtain raiser event which was witnessed by our faculty and students on campus and alumni from across the world through different platforms, when the six core values of the centennial vision of the institute were unveiled on 1st April 2022.LDCE has always been ambitious, eager, and progressive. Let us take this opportunity and convert it into a reality that will lead us to new heights in the coming years.

With best wishes

- Dr. R. K. Gajjar

MAJOR EVENTS

(Institute level/Department level)

• The department of Applied Mechanics of L.D. College of Engineering successfully organized One Week Online Faculty Development Programme on "Advances in Earthquake safe Design and Construction Practice" under the aegis of AICTE Training and Learning (ATAL) Academy from 7th Feb – 11th Feb'2022. The main objective of this FDP was to discuss and disseminate the concepts of ERD and the challenges in making Earthquake safe structures. Eminent speakers from esteemed organizations such as IIT Madras, IIT Roorkee, IIT Mumbai, MNIT Jaipur, NU Ahmedabad, SVIT Vasad and esteemed professional organizations such as VMS Mumbai, SQVe Ahmedabad shared their knowledge and vast experience through their insightful sessions. The entire FDP was efficiently conceptualised by Major Dr.C.S.Sanghvi (HoD, Applied Mechanics) and well co-ordinated by Prof. A. G. Hansora & Prof.C.D.Patel under the able guidance of Major Dr.C.S.Sanghvi.

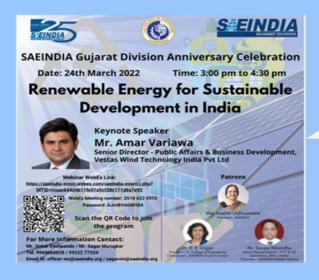




• Hackathon awareness session was organized by the Automobile department on 3rd March,20022 by Prof. J P Vasani. More than 50 students attended this session.



- Placement fair-2022 was organized on 15th and16th March 2022 at GP Gandhinagar. Faculty Coordinator Prof. V G Trivedi along with 8 students from Automobile attended the placement fair on 15th March 2022.
- SAE India Gujarat Division Western section foundation day was celebrated on 24th March 2022 (24th March 2018 Establishment day). On this day an expert talk was organized on "Renewable Energy & Business Development". The expert for this session was Mr. Amar Variawa, Vice Chairman, SAE INDIA-WS-Guj division & Senior Director Public Affairs & Business Development, Vestas Wind Technology India Pvt Ltd. The session was chaired by Dr. R K Gajjar, Principal L D College of Engineering & Chairman SAE INDIA-WS-Guj division, and byMr. Sanjay Nibandhe, Chairman, SAEINDIA WS & Senior Deputy Director Chakan Operations & Passive Safety Lab., ARAI from Pune WS. There were 66 participants along with faculty and students in hybrid mode.





 Prof Bhartiben V Dave, Retired Professor from the Mechanical Engineering department donated a number of technical books and material of Prof A K Mehta, retired professor of the department to the Departmental Library on 16th March 2022.

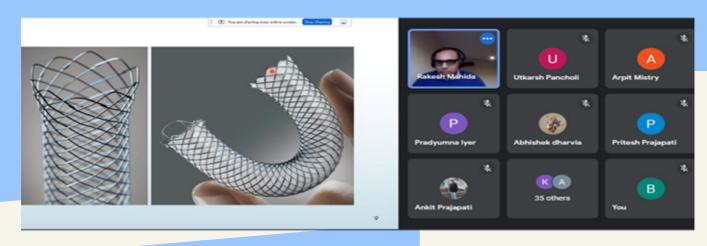


This has been of immense help to both the students and faculty members.

The session on "How to plan for start-up and legal & ethical steps" was organized in hybrid mode on March 25th, 2022. Mr. Mayank Patel, CEO of technology business incubator (TBI) at Indian Institute of Public Health, Gandhinagar, and Mr. Hardik Gohil, CEO and Founder of Neelkanth Solutions were the experts. 9 faculty members and 62 students participated in this event. The session focused on startup methods and processes. The intention or the objective of the session was to help the students to plan a startup of their interest. Various aspects of startups were discussed in the program including the identification of problems, Proof of concept, MVP and its development process, scale-up process, and ethical and legal aspects. Various case studies of startups were discussed during the session.



• International Webinar on "Basics of Stent Design" was organized by Biomedical Department, L. D. College of Engineering, Ahmedabad under the aegis of The Institution of Engineers (India) Students' Chapter on 11th January 2022 from 3:00 pm to 4:30 pm by industry expert Mr. Rakesh Mahida, Senior R&D Engineer, Sogeti, Ireland.



• The Computer Department had organized a 5-day Faculty Development Programme on "Recent Trends And Future Directions In Information Security" from 21st to 26th March 2022. The event was successfully coordinated by Dr. Jay Dave and Dr. Nikunj Domadiya with the support and guidance of Dr. Rajul Gajjar, Patron, and Dr. S. M Shah, Prof and Head of the department. 47 faculties had participated and different sessions were taken by 15 eminent speakers from reputed institutions.







on

Recent Trends and Future Directions in Information Security

21-Mar-2022 to 26-Mar-2022









Dr. Sanjay Shah HoD Computer Engineering, LDCE

- The Computer
 Department
 organized a mock
 round in January
 2022 for the
 forthcoming NBA.
- NBA Accreditation





• The Computer Department celebrated "Networking day" with the blue theme in March 2022.

• Special Technical events were organized by the department. The Computer Department's Innovator club arranged a 3 days Virtual National Techfest "IRADA" from 3rd to 5th February 2022. Almost 46 teams across the country comprising more than 1000 students had participated in this technical event. Various technical events like "Think Bots", "S.S.Battle", "Circuit Spider", "Crazy Drive", "World Innovation" etc. along with non-technical games were major attractions of the event.





• The Information Technology department organized a One day Sports day celebration under the coordination of Prof.B.B.Panchal at Annexe building on 19th February 2022. The faculties of the department and students of BE and MCA participated in various sports like Cricket, Volleyball, Kho Kho, and some fun games like the Musical Chair and Quiz Competition.





• Information Technology department organized SMART INDIA HACKATHON 2022 AWARENESS AND MOTIVATIONAL SESSION under the coordination of Prof. NP Desai at Annexe building on 02nd March 2022. Nearly 35 students of BE participated in the session. Previous Hackathon winners shared the process and experience of their participation at various Hackathon events.





 Dr. Manohar Munjal has been nominated as a Distinguished Chair Professor (DCP) to L.D. College of Engineering, Ahmedabad under AICTE-DCP scheme 2021. In line with this, a technical lecture session was organized on "Vibration control



in the industry" on 19th March, 22 for the students and faculty members of the Mechanical department so as to give them more relevant and practical knowledge of different methods of vibration control in the industry. More than 120 attendees have participated in the event.

• Mechanical department faculty members and students celebrated the Holi festival to bring a sense of togetherness in the department.





- An awareness program related to WDC and ICC was organized for the female students of the Textile Technology department on 21st March 2022.
- On 3rd March 2022, an One Act Play written, directed, acted exclusively by Students entitled "@ Accidental Influencer" won the Best One-Act Play award in the 33rd edition of the prestigious Open Gujarat Inter-College One Act Play Competition organized by INT and by sponsored Guiarat Samachar Trust. It was for the first time in the history of this competition that engineering college had won this title beating other eminent Arts/Commerce/ Colleges who have been participating in competitions for years. Prof. D S Patel, Asst. The professor of English was the faculty coordinator of this successful endeavour.





- Rubber Technology Department has renewed The Institute of Engineers (India)- IEI students' chapter of Rubber technology, L. D. College of Engineering and got a 2 years renewal for 31st March 2022 to 30th March 2024.
- All students of BE semester VI have taken the "Say Yes to Life, No to Drugs" pledge and committed themselves to consciously cooperate in stopping drug abuse and staying away from drugs to live a healthy life on 10th March 2022.

INDUSTRY - INSTITUTE INTERACTION

(Institute level/Department level)

• The Applied Mechanics department launched its "AVBODH Series ("A Path of knowledge to Achieve Excellence")" on 25th March 2022. Under the aegis of this series, a technical workshop on "Foundation Design Using Softwares" by Dimsoln Technology LLP, Mumbai was arranged by the department in association with the Indian Geotechnical Society (IGS) Ahmedabad Student chapter & the Institution of Engineers (India) student's chapter Civil Engineering, LDCE Ahmedabad. The main objective of this workshop was to disseminate the knowledge of different geotechnical software through a hands-on sessions. Around 40 students (UG & PG (Geotech. Engg. and Structural Engg.) participated in the workshop.





- 30 Students from B.E.Sem VI (Civil) participated in the Technical Lecture Series at Ahmedabad Management Association. This lecture series was organized by Knowledge Studio Neha Consultant in coordination with Ultratech Cement Pvt. Ltd. This series of 6 lectures commenced on 3rd March 2022 with a focus on Civil Engineering Prospects, Cement, Concrete & New generation products. Prof. Poonam I. Modi coordinated with the Ultra tech for shortlisting of the students as limited seats were available for the program.
- Dr. M V Shah was invited by GTU-CCCA on 11th January 2022 for delivering an expert talk on subjects of Geotechnical Engg and Foundation Engg for the preparation of GPSC/COMPETITIVE exams by the students of various engineering colleges all across Gujarat affiliated to GTU.

• A technical tour was arranged to L&T GeoStructure Lab – Asia's largest geotechnical laboratory set up at Surat for Mumbai-Ahmedabad High-Speed Rail Project. This tour was arranged in 4 slots as per the schedule provided by DTE for the month of March 2022. Students from B.E (Civil) as well as M.E (Civil-Geotech, Transportation) were accommodated for the tour accompanied by Faculty members from both Civil and Applied Mechanics Departments.





- Major Dr. C S Sanghvi & Dr. M V Shah were invited by GTU-CCCA on 17th January 2022 for chairing the expert committee formed by GTU for the subject of Structural Engineering & Geotechnical Engg respectively for the demo session of interview of students appearing for GPSC exams.
- Major Dr. C S Sanghvi was invited as Guest of Honour by UltraTech Cement Ltd during the lecture series on Ultra High Strength Concrete on 31st March 2022 at Ahmedabad Management Association.
- An Expert Lecture cum awareness program on Cleaner Production under the topic of "Cleaner Production towards Sustainable Industrial Development" by Dr. Bharat Jain, Chairperson- Gujarat Cleaner Production Centre, for undergraduate students of Chemical Engg. Dept. was organised by the Chemical Engineering Department on 30th March, 2022.





• A field visit to FAB LAB at CEPT University, Ahmedabad was organized on 18th February, 2022. 2 Faculty members and 40 students visited CEPT University. This visit gave knowledge for prototype development based on the needs. Students also learnt to use and select different materials for the development of a variety of models. They learnt to use modern and user-friendly digital production machines like 3D Printer, 3D scanners, laser cutters, etc. Students will identify their capabilities to make (almost) anything by this visit.



- An informative session on "Globalisation in Education and Abroad studies"
 was arranged by Mr. Manminder Singh of Pyramid Consultant on 10th
 March 2022. More than 70 students from the Automobile department
 participated in this session.
- The Mechanical and Automobile Department organized a one-day student Industrial Visit on 10th and 14th March 2022 at Indo-German Tool Room (IGTR) under the ministry of MSME department, Vatva, Ahmedabad. IGTR Ahmedabad is equipped with the latest European machines and a motivated and trained professional team. During the visit students got an opportunity to see the working of various CNC machine tools, CMM machines, ordinary machines, KUKA robot for welding, Plastic injection molding section, measuring instruments, plastic, and metal Rapid prototyping tool (3D printer). The industrial visit was coordinated by Prof. A.G.Momin, Prof. D.K.Patel, Prof.S.B.Shah and Prof. S.P.Shah.



• A national-level webinar on Training, Internship, and Job Opportunities in Biomedical Engineering was organized on 17th February 2022, Thursday from 3:00 pm to 4:00 pm. Eminent expert resource person Mr. Nitturi Naresh Kumar, Ph.D. Scientist D, Andhra Pradesh MedTech Zone (AMTZ) Visakhapatnam, discussed on promoting training on Biomedical Engineering Technology, standards, and procedures to assist and educate fresh Biomedical Engineers and Biomedical students. It was also focused on aspects of high standards and principles in the administration of Biomedical Engineering Department Services including procedures to guard against or address inappropriate conduct in support of the Biomedical Engineers.



- A Webinar on "Essentials of scientific writing" was organized by the Biomedical Department, L. D. College of Engineering, Ahmedabad under the aegis of The Institution of Engineers (India) Students' Chapter on 19th February 2022, Saturday from 11:00 am to 12:30 pm by academic writing expert Dr. Karla P. Mercado-Shekhar, faculty at Centre for Biomedical Engineering, IIT Gandhinagar.
- A Webinar on "Journey from Education to Entrepreneur" by Dr. Jaimin Vasa, MSME Chair, was organized for 4th and 6th-semester students of Chemical Engg. Dept., Environment Dept. And Plastic Technology Dept. on 19th February, 2022.
- Prof. Mihir Vasavada delivered expert lectures at the skill development program on "Energy Efficiency of Electrical Home Appliances and Green energy" at CERC, Ahmedabad under CERC ENVIS Resource Partner of Ministry of Environment, Forest and Climate Change, Government of India on 29-03-2022 & 30-03-2022.

• An expert lecture on "Industrial Wastewater Treatment" by Kaushik Solanki, Technical Sales manager, Mazda Ltd., an engineering company involved in the design and manufacturing of chemical process equipment. The on-line lecture benefitted the students by not only providing technical knowledge about various design aspects in the chemical industry but also for scope of chemical engineers in design engineering firms





• 6th semester students of Chemical Engineering had a one day industrial visit at Kiri Industries Ltd., GIDC, Phase-II, Ahmedabad on 26th March, 2022.





Information Technology • The department organised a webinar "Opportunities in Security" under coordination the of Prof.M.N.Panchal online on on 19th platform MS Teams February 2022. **Students** 31 attended the webinar.



The session was taken by our IAB member Mr. Devam Shah who is the Security Head in BYJU's Great Learning, Bangalore.

 An alumni interaction with our alumni Mr. Kaushik Solanki, 2016 batch was organised in the month of March, 2022.



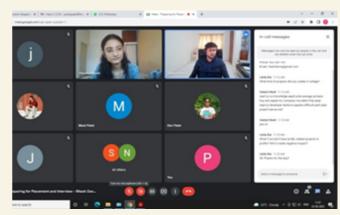
- Electrical department organised an expert talk on "Energy Conservation and Audit of electrical systems in Industry" by Sh.Alpesh Pandya Technical Expert, Certified Lead Auditor EnMS ISO 50001 – BIS, on 25th March, 2022.
- The Information Technology department organised a webinar "Artificial intelligence, Machine Learning, Block chain & Real word case studies" under the coordination of Prof.S.J.Patel on online platform ZOOM on 5th February, 2022. 55 Students of semester 6 attended the webinar. The expert Mr. Nikhil B. Shah, Director and Founder of Cilans System, Data Science & Block chain Evangelist, having 25 years experience conducted the session.
- The Information Technology department organised an expert talk conducted by Mr. Jay Vora, Managing Director, Serpent Consultancy Pvt. Ltd. He explained recent trends in Business Analysis and ERP. 24 BE/ME/MCA students from attended this expert talk. Mr. Jay Vora discussed all the things in a very detailed manner and from ground level. He also discussed the market scenario and future aspects of this technology. He also shared his experience in this regard. Later on he kept the session open for students and invited them for discussion. Students have participated very positively in this discussion.
- The Information **Technology** department organised an Expert Lecture on angular IS and react IS under the coordination of Prof.A.J.Patel on online platform Zoom on 24th March 2022. The lecture was conducted by Mr. Ritesh Davra. He is Frontend Developer at Best Student Hall Company. Students 65 semester 6 took part in the session.

- lectures given Expert Engineering Environmental Department faculties Prof. G. H. Ban, Prof. M. J. Pandya, Prof. B. B. Online Patel in Training Programme on "Environment Auditing Made Easy: Basics and Analytical Test Procedure" from 7th - 11th March, 2022 jointly organised by Environment Group - Gujarat Energy Research Management Institute, and Gandhinagar $\mathcal{E}^{\mathcal{S}}$ Gujarat Pollution Control Board. Gandhinagar.
- Prof. A. S. Kuhikar gave an expert lecture and hands-on experience on "Environmental Chemistry-Physical, Chemical and Biological Parameters Laboratory Practical" on 28th Dec 2021 to Mahatma Gandhi Labour Institute students.
- Prof. Munjal delivered an expert lecture on "Vibration control in industry" on 19th Mar 2022 for UG and PG students.
- Environmental Engineering department organised an expert lecture (Online) series for UG & PG students on "Road Safety Scenario" by Prof. Rena Shukla on 31-12-2021 and lecture on "Swachh Technology Challenge Online Training & Handholding" by Monika Patel, Assistant Environmental Engineer, Ahmedabad Municipal Corporation on 31-12-2021.

- Webinar on "Climate change & Sustainable Energy" and Inauguration of IEI Students' Chapter, Electrical Engineering Department was conducted by Dr. K.A.Bhatt, Prof. H.N.Raval, Prof. Bhavik Chaudhari, Prof. L.K.Katariya on 29th january 2022.
- Expert lecture delivered on "Energy literacy" by Prof. (Dr.)
 Chetansingh Solanki, Professor,
 IIT Bombay on 30/01/2022 at
 EED, LDCE, Ahmedabad.
- Webinar on "Electricity Markets and Trading" under Electricity Markets and Trading by Sh. Dhruv Bhatt Co-Founder/Chief Technology Officer of Sen Engineering Solutions, Inc, on 04/03/2022
- The Electrical department arranged a One day Workshop on "A,B,C,D, about Arduino" at EED, LDCE on 08th March, 2022. Prof. Fredrik Makwan, Prof. H.N.Raval, and Dr. K.A.Bhatt coordinated the program.
 - An industrial visit was organised for students of BE semester VI Rubber Technology for Anar Rub Tech Pvt. Ltd. Ahmedabad on 26th March 2022.

- The Computer Department organized a webinar on "Recent Scenario of Information Technology Industries" on January 29th, 2022. Mr. Hitesh Kachhela, CEO of Proxware Technologies was the distinguished speaker of the event.
- The Computer Department organised a seminar on "Beyond placements Leveraging Gig Economy and its Scope" on March 5th, 2022. Malav Shah, a student of final year; who is also CEO of Reolo Holographics, his own start-up, was the speaker. Topics covered were:
 - 1) Expert advice given to institute/industry
 - 2) Expert advice taken from institute/industry
 - 3) Industry/institute projects
 - 4) Sponsored Projects/Consultancy Projectsother than SSIP/SOIC
- The Information Technology department organised the LDCE Alumni Lecture series named "GyanGanga-2" under the coordination of Prof. P. R. Patel & Prof. M. B. Patel on online platform Google Meet during 21st to 25 March, 2022. The major goal of this series was to help students prepare for their future careers. The majority of the event's seminars were conducted by prominent alumni of the IT department. The purpose of this event was to offer pre-final year students with the appropriate counselling in preparation for placement and higher education. 70 students of semester 6 attended the webinar series. Mr. Chirag Umrania from TCS, Gandhinagar, Mr. Purvesh Dodiya from Simform, Ahmedabad, Mr. Ritesh Davra from Zeus Learning and Miss. Panchal Mansi from Goldman Sachs Services Private Limited conducted various sessions to help students to learn about key things for the placements.





 Prof.S.J.Padhiyar coordinated with Rubber industries regarding Placement of Rubber Technology students and Jaydeep Vala, a student of Rubber technology has been placed in Rubber King and Mehul Hadiyal placed in Archna Rubber.

- The technology Rubber department arranged pedagogy meeting with Mr. Raviraj Patel, Quality and Production Executive. Mahalaxmi Rubtech Ltd. on "Rubber Printing blankets" on February 2022. R.N.Desai has co-ordinated and Prof. A.D.Bhatt, Prof. B.D.Patel, Prof.S.J.Padhiyar, Prof. G.G.Bhatt, Prof.R.Y.Modan and Prof. P.N.Chavda attended the meeting.
- Technology Rubber The Department arranged pedagogy meeting with Mr. Parth Dhangdhariya, Technical Sales, Marekting at Kingfa Science and Technology on "Reinforced Polypropylene compounds" on 5th March 2022. Dr. R.N.Desai co-ordinated and Prof. A.D.Bhatt, Prof. B.D.Patel, Prof.S.J.Padhiyar, Prof. G.G.Bhatt, Prof.R.Y.Modan and Prof. P.N.Chavda attended the meeting.
- An expert lecture was organised on "Preventive measures for Rubber Mixing Mill" delivered by Mr. Atul Shah, Rubber alumni & MD, Pioneer Rubbers on 21stFebruary 2022.

- With great efforts and interaction of Prof.R.N.Desai, Head and Prof.S.J.Padhiyar, placement coordinator, Rubber Technology department, students of B.E. Sem VIII, Rubber Technology got Week 16 Internship in various reputed Rubber Industries such as Ceat Tyres, Lathia Rubber, Sanvi Rubber products, Techno products, Rubber Pioneer industries, Fusion Polymers, Polygold Precured Systems, Bymer Elastomers, Parth Rubber, Ashutosh Rubber, Forum Polymers Industries, Viscon Rubber, Yash polymers, Natraj Rubbers, Apar Cable Ltd and Anar Rub Tech Pvt. ltd.
- Prof.R.N.Desai arranged a technical workshop on "Rubber Rheological measurement" delivered by Hem Technologies, coordinated by Prof. A.D. Bhatt and Prof. B.D. Patel and attended by students and faculties of Rubber Technology department on 5th March 2022.

• The Information Technology department organised an Industrial Visit to Yudiz Solutions Pvt. Ltd. targeting the AR-VR Technology under the coordination of Prof.B.B.Panchal, Prof.S.J.Patel, Prof.S.A.Solanki, Prof.V.B.Thakkar on 23rd March 2022. 50 students of BE semester 4 and ME semester 2 took part in the visit. The visit included awareness towards various technologies and hands-on sessions on AR and VR





• The Information Technology department organised an Industrial Visit to e-Infochips Pvt. Ltd. under the coordination of Prof.B.B.Panchal, Prof.P.N.Ramanuj, Prof.S.J.Patel, and Prof.M.N.Panchal, on 28th March 2022. 46 students of BE semester 6 took part in the visit. The visit included a technology capsule session followed by an experience zone of product demo for each student and Overall awareness of all the technologies of the company and visit to its departments.





• The Information Technology department organised a webinar "Core Java Concepts" under the coordination of Prof.M.B.Patel on online platform Zoom on 30th March 2022. 92 Students of semester 4 attended the webinar. The Expert Lecture was conducted by Mr. Chintan Chovatiya who is a Senior technical trainer in TOPS Technologies. He explained core java concepts.

• In the Plastic Technology Department, AMUL Fed Dairy Ltd. came for placement on 07th February 2022. A written test was taken for the Final year students. 15 students were shortlisted for a personal interview.



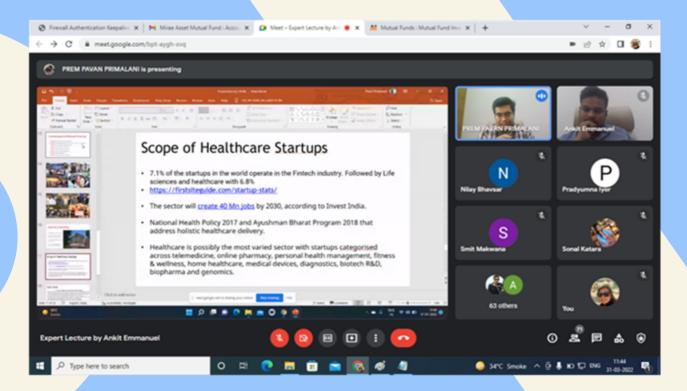


- The Rubber technology department arranged a pedagogy meeting with Mr. Kishan Chotaliya, Senior Supervisor- technical & Q,A at Rubber King tyre Pvt. Ltd. on "Solid tyre technology" on 28th January 2022. Dr. R.N.Desai has coordinated and Prof. A.D.Bhatt, Prof. B.D.Patel, Prof.S.J.Padhiyar, Prof. G.G.Bhatt, Prof.R.Y.Modan and Prof. P.N.Chavda attended the meeting.
- Ms. Reena Patel & Ms. Yashvi Trivedi have taken hands-on practical workshops at Sanvi Rub Tech for their research project under the mentorship of Prof.S.J.Padhiyar.

RESEARCH & CONSULTANCY

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

- The full patent under the title "A Carbon Dioxide Absorbed Municipal Solid Waste" was filed by Dr Manish V Shah and Hetal Suvar (PG student) on 11/02/2022, application no. 202221007256 A.
- 39 students from the Bio medical engineering department
 participated in an internal
 hackathon for SIH 2022 conducted
 on 24th 25th March, 2022. Two
 teams from Biomedical
 Engineering Department were
 selected for participation at
 national level SIH 2022 in
 hardware category.
- SSIP, Hackathon and Innovation awareness and sensitization program was arranged for 4th and 6th semester Biomedical Engineering students. More than 50 interested students took part in this program. The program was arranged on 3rd March 2022.
- webinar of Startup, Incubation and Patent was organised on 31st March 2022 from 11:00 am to 12:00 pm. The resource persons were Mr. Ankit Emanual, alumni and startup incubator at i-Hub, and Mr. Prem Primalani, Innovation and Incubation Executive at i-Hub Gujarat.



- 4 SSIP projects of Rs 412000/- are undergoing.
- Environmental audit of 3 industries ongoing.
- Prof. T. S. Rajaraman successfully published an Indian Patent with patent number 202121060193 on "Grey TiO2 synthesis through aluminium foil assisted NABH4 Reduction" on 7th January 2022.
- Total 15 teams of students of the Information Technology Department participated in the Smart India Hackathon Institute Level Scrutiny round.
- A mentoring session was arranged for the 9 teams participating in an internal Hackathon for SIH-2022 on 22/03/2022. Dr N M Bhatt sir discussed with all the teams individually and motivated them by giving his valuable suggestions.



• Dr. M. S. Gadhavi's research proposal submitted under INDO-ITALIAN EXECUTIVE PROGRAMME OF COOPERATION IN SCIENTIFIC & TECHNOLOGICAL COOPERATION has been approved by International Union for Quaternary Research (INQUA).



 Dhruv Panchal, Shyam Chauhan, Denis Savaliya, Maulik Chauhan, Saumya Rathod and Sukanya Rathod, students from Rubber Technology have successfully participated in internal Hackathon-2022 organised by L.
 D. College of Engineering on 22nd and 23rd March, 2022 under mentorship of Prof. G.G.Bhatt and Prof. P.N.Chavda and got shortlisted and nominated to Smart India Hackathon 2022 (SIH-2022).



- 84 students from E.C. dept participated in Internal Smart India Hackathon (SIH) held on 28-29 March 2022 at L.D.C.E.
- In Internal SIH-2022 held at LDCE out of 79 teams, 4 teams of E.C. are shortlisted for national level SIH.
- Two teams of Sem 6 of Plastic Technology department participated in the Hackathon event organised by L.D.College of Engineering on 24th & 25th March 2022.
- Students prepared prototypes and presented their respective projects.
- Prof. S.J.Padhiyar is currently doing research work on "Ionic Liquid Application as Curative for Unsaturated Rubber".
- Prof. Bhakti Patel, Dr. Rupande Desai and Maulik Chauhan from Rubber Technology department successfully published a patent on "Soil Enrichment through utilisation of waste natural latex gloves" on 18th February, 2022.



STUDENT'S ACCOMPLISHMENTS

- Institute of Steel Development and Growth (INSDAG) organized a prestigious NATIONAL LEVEL DESIGN COMPETITION for students this year. They selected four teams from each zone. It is a matter of pride that all 4 teams qualified from West zone are from LD College of Engineering. The competition required every team to design "An Open Air Theatre". LDCE teams, comprised of final year Civil Engineering students and mentored by Prof. C.D. Patel (AMD) dominated the competition by securing all four positions by a healthy margin compared to other renowned colleges/universities of West zone eventually becoming the West Zone Winners.
- 20 students from B.E. sem VI (Civil) participated in the Internal Hackathon-2022 organised by L. D. College of Engineering on 22nd & 23rd March. The internal Hackathon was arranged to shortlist the projects to be further escalated to Smart India Hackathon 2022. Students participated under various themes such as Clean & Green technology, Smart Automation and others majorly under the Hardware category. These 20 students presented their work in the form of prototypes and presentations on topics such as 'Municipal Solid waste', 'Harnessing of Solar energy' and 'Construction & Demolition waste'. These students were mentored by Prof. Dr. M. V. Shah, Prof. C. D. Patel & Prof. Poonam I. Modi.

• GTU MOTORSPORTS – Hosted by L. D. College of Engineering, SAE LDCE COLLEGIATE CLUB participated in national level competition, Formula Bharat 2022 during 20-25 January, 2022. Team won 1st winner trophy, 1st overall dynamics, 1st endurance, 1st autocross, 1st acceleration, 3rd engineering design and winner shield. A proud moment for us all.



- Final year student of Biomedical Engineering Mr. Harsh Shah received AIR 38 in GATE 2022
- Two Biomedical Engineering students have received Innovation to Impact i2i award in 11th GTU SANKUL DAY on 14/02/2022.
 - i) Mr. Krunal Prajapati received this award for "IoT based & mobile operated ETCO2 measurement device" and
 - ii) Mr. Kartik Suru received this award for "Transparent screen for Smartphone.

FACULTY ACHIEVEMENTS

- Major Dr. C. S. Sanghvi appointed as Board Member for conducting B Certificate exam of NCC cadets.
- Major Dr. C. S. Sanghvi has been felicitated with Eminent Engineer Award at National level for his contribution in the field of Structural Engineering by Association of Consulting Civil Engineers (ACCE), India.
- Major Dr. C. S. Sanghvi is appointed as Special Invitee Committee Member of Gujarat Council for Professional Civil Engineers.
- Major Dr. C. S. Sanghvi had been appointed by Government of Gujarat as a member of Special Technical Committee for approval of tall structures (height more than 100m) in Gujarat and approval for three tall structures were given by the committee. Era of tall structures began at Gujarat.
- Major Dr. C. S. Sanghvi delivered an expert lecture on "Concept of Earthquake Resistant Design & Learning from Failures" during FDP on "Advances in Earthquake safe Design and Construction Practice" under the aegis of AICTE Training and Learning (ATAL) academy from 7th Feb 11th Feb' 2022.
- Major Dr. C. S. Sanghvi received NPTEL Star Achiever Certificate for securing more credits.

- Major Dr. C. S. Sanghvi delivered an expert lecture on "Learnings from the 2001 Bhuj earthquake and way forward" during FDP on "Disaster Risk Reduction for Sustainable Development" during 21st of March to 26th of March, 2022, Organized by Adani Institute of Infrastructure Engineering, Ahmedabad, Gujarat.
- 27th -28th of February and 1st of March, 2022, Prof. R. J. Jani worked for students coming back to India and then Gujarat from Ukraine as an overall coordinator from the Technical Education Department.



• Prof. C. G. Bhagchandani delivered a lecture on "Impact of Environmental Audit: Case Studies" on 10th March 2022 as a key resource person in a short term training program - "Environment Auditing Made Easy" jointly organised by GERMI, Ahmedabad and GPCB, Ahmedabad.

- Dr. Satish Shah delivered an expert lecture on "MaCabe Thiele method for Distillation" on 9th of March, 2022 at L. E. College of Engineering, Morbi.
- Dr. P. H. Rana, Professor and Head of Chemical Engg. Dept., worked as a subject expert for NBA mock round visit (DTE) at Chemical Engg. Dept. of Government Polytechnic Valsad.
- Dr. P. H. Rana, Professor and Head of Chemical Engg. Dept., worked as the Chairman of DTE Academic inspection committee for Academic inspection of Government Engineering College, Dahod and Government Polytechnic Dahod and Government Polytechnic Chhota Udepur.
- Prof. A. N. Vaghela, Asso. Professor-Chemical Engineering, worked as the Chairman of DTE Academic inspection committee for Academic inspection of Government Engineering College, Surat, Dr. S. & S. S. Ghandhy College Of Engineering & Technology, Surat and Government Girls Polytechnic, Surat.

 Fedrik A Macwan was selected in Gujarat Secretariat Chess team for 2021-22 to represent gujarat in All india chess tournament 2021-22 in Delhi along with 5 other AICS officers. He scored 5 points out of 9 in the tournament.



- Dr. N. M. Bhatt and Prof. P. C. Sheth, Mechanical department, completed the consultancy project on "Performance Review of the O & M Service provider, Machine availability of the Wind Turbine and its overall health in future" of GMDC, Ahmedabad worth Rs. 1,00,000/-.
- Dr. N. M. Bhatt visited GEC Surat as mentor for NBA on 25/02/2022 under VISHESHAGYA scheme of GTU.
- Dr. N. M. Bhatt visited GEC Gandhinagar from 18/02/2022 to 20/02/2022 as DTE representative during NBA expert committee visit for their Metallurgy department.

- Dr. N. M. Bhatt was appointed as member of committee for restructuring of courses at Government Engineering Colleges by Directorate of Technical Education, Gujarat State.
- Dr. Komal G. Dave, Professor, Mechanical Engineering, worked as session chair in one of the technical session in the International Conference of Futuristic Advancement in Materials, Manufacturing and Thermal science, jointly organised by Department of Mechanical & Aerospace engineering, IITRAM, Ahmedabad, Gujarat, India and Space Society of Mechanical Engineering (SSME), Space Applications Centre, ISRO, Ahmedabad.
- Dr. Komal G. Dave, Professor, Mechanical Engineering, participated and worked as coordinator at panel discussion committee at International Conference of Academic Institutions (ICAI) during 5-6 January, 2022, at Vigyan Bhavan, Science City, Ahmedabad, Gujarat.
- Dr. Komal G. Dave has worked as committee member for different work allocated by the Director of Technical Education, Gandhinagar (confidential work) and TEB Gandhinagar during months of January to March, 2022.

- Dr. Komal G. Dave has performed her duty as external examiner for conducting open synopsis examination for Ph.D. students of mechanical engineering of C.U.Shah University, Wadhwan city, Gujarat on 6th of April 2022.
- Dr. B. K. Patel had delivered an Expert Lecture titled, "Multiple Attribute Decision Making methods and their applications" on 28/02/2022 at a one-week Faculty Development Program on "Multi-Objective Optimization: Algorithms and Engineering Applications" in online mode. The FDP was sponsored under AICTE-ISTE induction/refresher program-2021-22 during 22nd February 2022 28th February 2022 organised by Government Engineering College, Valsad.
- Prof. A. G. Momin has been awarded for a part of the judging panel in Innovation in a national level tech-fest, IRADA-2022 organised at 3-5 February 2022 by Innovator club of L. D. College of Engineering, Ahmedabad.
- Prof. D. M. Chandra Secured Top rank in MOOCs "Non Traditional machining: Ultrasonic, Abrasive jet and Abrasive water jet machining" conducted by IIT Kharagpur, and "Automation in manufacturing" conducted by IIT Guwahati.
- Prof. D. M. Chandra Performed the nodal officer duties of arranging accommodation, food, and transportation as assigned by the Department of Technical education, Gandhinagar, for students evacuated from Ukraine under "Operation Ganga".

- Prof. Hetal C. Shah and Prof. Stuti R. Shah completed Module 3 and 4
 on Swayam platform and appeared for the Home proctored exams.
- Prof. Kintu P. Jain and Prof. Hetal C. Shah attended the program on "Climate Change" at Science City, arranged by the Climate change Dept in collaboration with DST and Education Dept. on 21st Feb 2022.
- Prof. Stuti R Shah along with the students of Sem 6 visited the Climate Change exhibition at Science City on 23rd Feb 2022.





• Prof. Kintu P. Jain, with Sem 4 students, attended Hon. PM's function near Karai, Narmada Canal on 11th of March, 2022.

- Prof. Bharati G. Basantani and Prof. Kintu P. Jain guided a team of Sem 6 students for the Hackathon project titled "Effective way for tackling the issue of improper disposal of personal COVID protection equipment using sterilisation chamber".
- Prof. Hetal C. Shah and Prof. Stuti R. Shah guided a team of Sem 6 students for the Hackathon project titled "Portable and Smart Packing System".
- Dr. Atul Patel, Asst. Professor of Mathematics, got three books published namely, Teaching of Mathematics through Laboratory Method and its Significance on Students Achievement, A Study of Fuzzy Mathematical System, and Survey on Teacher's Perception of ICT Integration in the Ahmedabad School Classrooms.

COMMUNITY ENGAGEMENT

(NSS, NCC, Clubs etc.)

- Under the umbrella of Internal Complaint Committee and Women Development Cell, LDCE, an awareness drive regarding interaction with girls of all courses and semesters under the guidance of Dr. R. N. Desai, Convener of WDC and Dr. Komal G. Dave, Presiding officer, ICC, was done. The function of committees, hygiene, sanitation and safety aspects have been explained by all department faculty coordinators and other female faculty members of various departments. Girls have taken part in the same with enthusiasm and resolved their queries.
- A workshop on topic women safety has been organised by NSS and ICC cell of LDCE for celebration of International Women's Day on 9th March 2022 in support of the Applied Mechanics department of LDCE.



Ms. Ruzan Khambatta, an expert in women issues, founder of 'Wajr-o-Force' and external member of ICC committee has been invited as chief guest at the function. Dr. R. K. Gajjar, Principal of LDCE graced the function with inspiring words to students and faculty members. Ms. Ruzan delivered a wonderful lecture with demonstration regarding women safety. Dr. C. S. Sanghavi conveyed vote of thanks. Dr. K. G. Dave, presiding officer ICC and Dr. R. N. Desai, Convener of the WDC, LDCE also shared thoughts on women safety. Nearly 70 participants enjoyed the session by resolving their queries.

 Awareness program about WDC (Women Development Cell) of LDCE was organised for female students of Biomedical Engineering Department on 29th of March, 2022. Information about WDC and its activities were introduced.



• Prof. Zishaan Ali, Assistant Professor, Computer department conducted a seminar on "Motivational talk with future engineers" in January 2022 as a service to one of the community organisations.



• Prof. Zishaan Ali, Assistant professor, Computer department conducted a session on "How to prepare well for the Board Exam" in his community as a service to mankind.



Madhish parikh, an LDCE alumni(Computer department),
 started heritage walk in 2016; after ahmedabad was announced as one of the heritage cities of India and conducts it free of cost.

Madhish says "there is a strong influence of old ahmedabad pol's on an individual's lifestyle. People of all age groups have joined the heritage walk as it plays an important role for the development of history



and character of the city through generating interests and involvement of the local community in the urban conservation activity."

- SHAKTI THE SETU is a self-defence training workshop organised by the NSS unit of LDCE. IC 2nd year student Student Khilva Bhatt was coordinator of this event.
- Dr. Ashwin Thakkar worked as a committee member in ICAI 2022 organised during 5th and 6th of January, 2022.
- Prof. Bharati Basantani worked in Registration Committee at ICAI 2022 organised on 5th and 6th of January, 2022.
- Dr. Ashwin Thakkar attended the online Board of Studies meeting of SVVV, Indore on 26th of February, 2022.
- Prof. S. K. Parmar worked as Liaison officer in ICAI 2022 organised during 5th and 6th of January, 2022.
- Prof. H. J. Jaiswal attended the inaugural event for SSIP 2.0 online on 13th of January, 2022.
- Prof. P. R. Patel and Prof. H. J. Jaiswal worked as College Faculty
 Coordinator and Department Faculty Coordinator respectively
 for Honourable Prime Ministers Function near Narmada Canal on
 11th of March, 2022.

- Dr. Ashwin Thakkar attended the meeting with the Honourable Chief Minister of Gujarat during which the Centennial Vision & Logo of LDCE@75 was launched.
- Dr. D. V. Bihola attended the Placement Fair with final year students on 16th of March, 2022.
- Virti Shah, enrollment no. 190280113069, studying in the Environmental Engineering Department represented L. D. College of Engineering at National Republic Day Parade Camp, Delhi on 26/01/2022.



NCC ACTIVITIES:

• **Vibrant Gujarat Piloting,** 5th Jan to 7th Jan, 2022

The event is aimed at bringing together business leaders, investors, corporations, thought leaders, policy and option makers. Our cadets from 1 GUJ CTC willingly took part in the event and did piloting. They had the privilege to meet ADG NCC major general Arvind Kapoor.



Unicef Meeting, 31th of January, 2022

Meeting was held on 31st January, where cadets of NCC took part and discussed establishing a Young Leaders lab at LD college for empowerment of youth.



• Youth Exchange Programme, 16th of February, 2022

CPL Manan Patel has been selected for YEP by Gujarat Dadranagar haveli, Daman and Diu Directorate.



• Rank Ceremony, 23rd of February, 2022

Rank ceremony was organised on 23rd of February, 2022 where cadets of 2019 and 2022 batches were promoted.



• C-Certificate Exam, 25 and 27 February 2022

C Certificate Practical exams for cadets of 2019 took place on 25 FEBRUARY which included drill, weapon training, map reading, communication, field and battle craft. C Certificate written exam was held on 27 February.

• B-Certificate Exam, 16 and 20 March 2022

B Certificate Practical exams for cadets of 2019 took place on 16 MARCH which included drill, weapon training, map reading, communication, field and battle craft. B Certificate written exam was held on 20 March.

• SAY NO TO DRUGS DRIVE, 22 March 2022

Drive was organised by cadets of NCC to spread awareness amongst the youth to not indulge in consumption of drugs and toxicants.

• Farewell 2022, 25 March 2022

Farewell was organised for 3rd year cadets by junior cadets. The senior cadets shared their Journey of 3 years at NCC. They also encouraged the Junior Cadets by sharing their valuable experience and knowledge.

• Inter Group Shooting Competition, 28 March 2022

CPL Tarang Patel participated in Shooting Competition from 1 GUJ CTC at firing range 2 AIR SQUADRON, Mota Chiloda, Gandhinagar.

• Raj Rajpara, student of Rubber Technology BE semester VI passed the NCC level 'B' Examination under the authority of Ministry of Defence, Government of India.

NSS ACTIVITIES:

• **The Joy of Giving 2021,** 25th December 2021 to 7th Jan 2022

NSS LDCE organised 'Joy of Giving' with the motive to bring a smile on faces of people who live on footpaths and can barely fulfil their basic requirements. A donation drive was carried out for the same from 21st December to 7th January, 2021, across the campus where 6500 clothes, blankets, and footwear were collected.

• Ummeed - Let's Fly Happiness, January 12, 2022

NSS LDCE with the support of Lions Club Ahmedabad had successfully conducted "UMMEED - Let's Fly Happiness" on the occasion of National Youth Day. During this event, 400 underprivileged kids were given goodies like kites, firkis, and stationary items along with food packets. The main aim of the event was to spread happiness through celebration of the festival of Uttarayan and motivate the kids to dream big and achieve to it. This event also prevented road accidents caused due to kite catching by kids. It was an heartwarming spectation of kids enjoying the Kite festival.



• Social Media Campaign - #DoriLapetIndia, January 14-15, 2022

NSS LDCE conducted an online campaign #DoriLapetIndia where cleanliness of the surroundings after the festival was highlighted, mainly the manjha collection as it is one of the reasons for bird injuries and other accidents. More than 200 kg of manja was collected.

• Azadi ka Amrut Mahotsav, January 26, 2022

NSS LDCE celebrated the auspicious occasion of the 73rd Republic Day under Azadi ka Amrut Mahotsav - #indiafightscorona. The event consisted of taking part in the Fit India campaign where the volunteers of NSS LDCE performed Suryanamaskar.

• Rang Amaizi, February 26, 2022

The benchmark event of NSS LDCE has been Rang Amaizi since 2014. Rang Amaizi is a unique wall painting competition where artists of every age group are given a platform to showcase their talent on the walls of the LDCE and Girls Polytechnic College. This year, the event was held on the 26th of February, 2022, regularly which is celebrated as Ahmedabad's birthday with huge participation from the residents. By this event, the city of Ahmedabad was given more than 300 wall paintings & beautiful walls near the institute. Beautification of more than 5400 square metres of wall took place.

With a total participation of 300 teams, artists painted the walls on topics like Mental Health, Atma Nirbhar Bharat, Youth & Social Media, Pride of India, Indian Army, Fit India, Ek Bharat Shresth Bharat etc. The winners were awarded trips while the participants were given certificates.



• Young Leader's Lab Launch, March 5, 2022

NSS LDCE helped in organising the launch event of the **Young Leader's Lab** that took place on the 5th of March at LDCE. The students of the LDCE college, NSS volunteers, and the NCC cadets had participated in this event.

• Seminar on "Journey - Ordinary to Extra-Ordinary Mind", March 16, 2022

The difference between ordinary and extraordinary is just the little extra effort that needs to be put into the regular tasks. NSS LDCE organised this seminar to help the students of LDCE gain some extra essence in their life by doing minimal tasks that add value to life. The seminar was held on the 16th of March, 2022. The event was graced by some eminent personalities like,

- 1. Dr. Praful Panagar, President of Ahmedabad Medical Association Ladies Club.
- 2. Dr. Vipul Chavda, Founder & Director of RIMS Hospital.
- 3. Dr. Kalpesh Patel, Member of the Indian Association of Physiotherapist (IAP).

PAPERS PRESENTED/PUBLISHED

- Dr Manish V Shah participated, and published presented research paper titled "EFFECT RESERVOIR OF DESILITING MATERIAL. ON **MANNING'S** COEFFICIENT USING **SUCTION** CHARACTERIZATION & DRYING -CYCLES" WETTING 26th at International Conference Hydraulics, Water Resources and Coastal Engg (HYRDO Organised by Civil Engg Dept, **SVNIT Surat** in association with ISH T during 23rd -25th Dec 2021.
- Dipak Chopda, V Kumar, Dr. Komal G Dave, P Kumar, P Kumar, N Kumar, H Kansara have published a paper on title "DESIGN AND DEVELOPMENT OF S BAND RADIO FREQUENCY (RF) CAVITY **FILTER** USING CARBON FIBER REINFORCEMENT POLYMER (CF **MATERIAL COMMUNICATION SATELLITES" at** "Recent Advances in Manufacturing Processes and Springer, Systems" Singapore Publisher, https://doi.org/10.1007/9 78-981-16-7787-8_18, Print ISBN 978-981-16-7786-1, Online ISBN 978-981-1 6-7787-8, page 253-263, January 2022.
- Prof. Hetal A. Joshiara , Dr. C. S. Thaker, Dr, S.M.Shah, and D. B. Cholshi published a paper titled "DETECTION OF STRAGGLERS AND RESCHEDULING **OPTIMAL** SLOW RUNNING TASKS IN BIG DATA ENVIRONMENT USING LFCSO-LVQ CLASSIFIER ENHANCED PSO ALGORITHM" in International Journal of Analysis Techniques and Strategies 2022, UGC-CARE approved journal, Volume 14, Issue-1 ISSN No.: 1755-8050 on March 09,2022.
- Mamta Patel and Dr. Komal G Dave. published a technical paper on title "AN INSIGHT OF COMPACTED **GRAPHITE IRON** (CGI) CHARACTERISTICS AND PRODUCTION: A REVIEW" at book "Recent Advances in Manufacturing Systems" and Processes Singapore Publisher, Springer, https://doi.org/10.1007/978-981-16-7787-8 10, Print ISBN 978-981-16-7786-1, Online ISBN 978-981-16-7787-8, page 131-148, January 2022.

- Prof. G. H. Ban has published a research paper on "STUDIES ON AN ESTIMATION OF PM2.5 AND PM10 REMOVAL **EFFICIENCIES** AIR POLLUTION CONTROL EQUIPMENT (APCE) EMPLOYING ONLINE LASER SCATTERING METHOD (OLSM)" in Research of Chemistry **Journal** and Environment, Volume 26, Issue 3, March 2022
- Prof. V. H. Shukla published a review paper on "PERFORMANCE OF AERMOD SOFTWARE FOR **DIFFERENT** AIR POLLUTANT **SOURCES UNDER** INDIAN CONTEXT" in International Journal of Darshan Institute on Engineering Research and Emerging Technologies, Volume Issue 10, 2, February 2022
- Dr Anjali Bishnoi published a book Chapter, titled "ADVANCED OXIDATION PROCESSES FOR - WATER TREATMENT: TYPES AND MECHANISM", in the "Advanced Oxidation book wastewater for processes treatment" Edited by Maulin P. Shah, Sweta Parimita Bera, Günay Yıldız Töre, Taylor & Francis. (Pages: 69-78, 2022, eBook ISBN 9781003165958).

- Prof. Hiral Pandya published a paper "PONGAMIA **PINNATA** on BIODIESEL PRODUCTION USING COBALT **DOPED 7.NO** NANOPARTICLES- AN ANALYTICAL STUDY" in Environmental progress and sustainable energy, 2022. Along with co- author Dr. Sachin P. Parikh Samidha (DOI: and Banka. 10.1002/ep.13814)
- Mr. L.S.Patel published a paper titled "HAZARDOUS LIQUID LEVEL MEASUREMENT AND CONTROL USING SINGLE DIGITAL CAMERA: A LITERATURE REVIEW " in Zeichen Engineering Journal UGC-CARE approved group II journal, Volume 8, Issue- 3, ISSN No.: 0932-4747 on March 2022.
- Dr. P. H. Rana, Professor and Head of Chemical Engg. Dept. published a book chapter titled "PRODUCTION OF HYDROGEN THROUGH GASIFICATION TECHNOLOGY" in the book "Biohydrogen" published by CRC press (eBook ISBN 9781003277156) on 20th March 2022.

PROFESSIONAL DEVELOPMENT

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

<u>Sr.</u> <u>No.</u>	<u>Title</u>	Name of Faculty	<u>Department</u>	Organized by	<u>Duration</u>
1.	Advances in Earthquake Resistant Design of Structures (AERDS-2021)	All staff of Applied Mechanics Department	Applied Mechanics	Applied Mechanics Department under DTE & AICTE-ATAL Academy	7/2/2022 to 11/2/2022
2.	Impactful Pedagogical Skills and Restructuring of Collaboration	Prof. A. J. Shah		LDCE, Ahmedabad	17/01/22 to 21/01/22
3.	Train the Trainer Program- Automotive Systems and Autotronics	Prof. Mazar Shaikh	Automobile	IACE- Gandhinagar	28/03/2022 to 01/04/2022
4.	"Impactful Pedagogical Skills and Restructuring of Collaborations"	Prof. Shital Solanki	Information Technology	ISTE, LDCE Civil and IT Department	17/01/2022 to 21/01/2022
5.	"Impactful Pedagogical Skills and Restructuring of Collaborations	Prof. Swati Patel		ISTE, LDCE Civil and IT Department	17/01/2022 to 21/01/2022
6.	Security in Blockchain and Cyber-Physical Systems Design	Alka Patel, Mittal Panchal		GEC Rajkot	17/01/2022 to 21/01/2022
7.	Data Science and its Applications	Madhuri Patel		Department of CSE, NIT Warangal, Department of CSE, NIT Raipur.	07/03/2022 to 16/03/2022
8.	Induction Phase 2	K.J. Ponda	Textile Engineering	NITTTR Bhopal (Online)	17/01/2022 to 28/01/2022
9.	Impactful Pedagogical Skills and Restructuring of Collaborations	R.N. SHUKLA	Civil Engineering	CED & IT Dept, LDCE Approved by ISTE, DTE & GTU	17/01/2022 to 21/01/2022
10.	Technology Enabled Teaching and Learning	Dr.Apexa Dharankar, Dr.Mansi Joshi	Science and Humanities	NITTTR, BHOPAL (Online)	28/03/2022 to 01/04/2022

<u>Sr.</u> No.	<u>Title</u>	Name of Faculty	<u>Department</u>	Organized by	<u>Duration</u>
		<u> </u>			
11.	"Metallurgy for All"	Dr. Komal G Dave	Mechanical	Metallurgy	21/02/2022
			Engineering	Department,	to
				Government	25/02/2022
				Engineering	
				College,	
				Gandhinagar,	
				DTE, GUJCOST	
12	Diefred December 9	Duef C N Cuterie		approved	24/02/2022
12.	Biofuel Prospects &	Prof. G N Sutaria, Prof. A G Momin		Department of Mechanical	24/03/2022 to
	Challenges	Pioi. A G Monini		Engineering,	25/03/2022
				Brahmdevdada	23/03/2022
				Mane	
				Polytechnic	
				Solapur	
13.	Webinar on "Blown Film	Prof. H.C. Shah	Plastic	All India Plastic	28th January
	Extrusion"		Technology	Manufacturing	2022
		- 6		Association	
14.	Webinar on "Essentials of	Prof. S.R. Shah		Biomedical	19th Feb
	Scientific Writing"			Dept, LDCE	2022
15.	Webinar on "Journey from	Prof. K.P. Jain		Chemical Engg.	19th Feb
	Education to			Dept, LDCE	2022
	Entrepreneur"				
16.	Webinar on "Pitch it	Prof. H. Shah		SSIP and IIC Cell,	19th Feb
10.	Right"	Tron. III. Shan		LDCE	2022
17.	Webinar on "Women	Prof. B.G Basantani		WDC and ICC,	8th March
	Entrepreneurs: Paving	Prof. H.C. Shah		LDCE	2022
	ground breaking pathways	Prof. S.R. Shah			
16	for today & tomorrow"	- (- 0 -			
18.	Webinar on : "Creating	Prof. B.G Basantani		WDC and Civil	8th March
	Green and sustainable	Prof. H.C. Shah		Engg Dept, LDCE	2022
	Cities"	Prof. S.R. Shah			

M. E. DISSERTATION

Applied Mechanics Department

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

E. C. Department

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

<u>Sr.</u> <u>No.</u>	Name of Student	<u>Title</u>	Name of Guide
7.	Barot Jilkumar	ASIC flow development for lower	Prof. (Dr.) Sanjay
	Laljibhai	geometry networking blocks	Prajapati
8.	Bhadrecha	hadrecha Design, Simulation and Analysis of	
	Hardik Mahendra	a 5G System Model	Sedani
9.	Nambiar	ASIC Flow Development for Timing	Prof. (Dr.) M. V.
	Keerthana	and Area Improvement of Edge	Shah
	Vijayan	Routers	
10.	Pathak	System verilog based development	Prof. K. G. Vaghela
	Nidhikumari	of Verification IP for AXI-3.0	
	Prakashchandra	protocol	
11.	Kartheek	Cloud streaming module to control	Prof. S. K. Gonsai
	Ikkurthi	streaming from IOT Device over	
		AWS cloud.	
12.	Choudhary	ASIC flow development for lower	Prof. (Dr.) P. P.
	Dhanraj	geometry Ethernet Switch	Prajapati
_	Ramaram	The state of the s	D 0 77 0 37 1 1
		UVM based VIP Development of	Prof. K. G. Vaghela
, 1		AXI4-Lite Protocol	D ((D) D I
14.	Parul Shashikant	Efficient floorplanning techniques	Prof. (Dr.) P. J.
Tapasvi		for better QOR in lower technology	Brahmbhatt
15	Dathara	node design	
15.	Rathava Design of Area Efficient and Highly Rekhaben Reliable RHBD 10T Memory Cell		Prof. H. B. Tank
	Navalsinh	· ·	
16.	Navalsinhfor Aerospace ApplicationsNilambenImplementation of various ECOs		Prof. (Dr.) M. V.
10.	Danabhai Der considering challenges		Shah
Danabhai Dei		and below nodes	Onan
17.	Parmar	Design and analysis of a microstrip	Prof. (Dr.) N. A.
17.	Jayantkumar	patch antenna for Q - band	Kotak)
	Kanubhai	satellite communication and radio	,
		astronomy studies.	
18.	Parmar	Defining Quality checks and	Prof. (Dr.) P. P.
	Kusumben Procedure to reduce Iteration in		Prajapati
	Manubhai	Physical Design flow	
19.	Kachhatiya Placement optimization		Prof. P. J. Muliya
	Divyesh Dayalal	<u> </u>	
20.	Sankhavra Riddhi Pravinbhai ASIC flow development for timing and area improvement of high end networking chip		Prof. A. B.
			Upadhyay

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

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