



April - June 2023

THE TECH PULSE

A Quarterly Newsletter by L. D. College of Engineering

KAIZEN-23:
CELEBRATING
INNOVATION AND
EXCELLENCE IN
PROJECTS AND
INTERNSHIPS

L. D. COLLEGE
OF
ENGINEERING

**EXPLORING
INTELLECTUAL
PROPERTY**

ON WORLD
INTELLECTUAL
PROPERTY DAY

**GREEN
INITIATIVES AT
LDCE**

FROM EARTH DAY
TO WORLD
ENVIRONMENT
DAY



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VISION



- To contribute for sustainable development of nation through achieving excellence in technical education and research while facilitating 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 teaching-learning process.
- To create a conducive research ambience 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. began with a warm prayer continued with a special video message from Principal Dr. Rajul Gajjar ma'am and a documentary of LDCE campus



Principal's Message



Dear Students and Faculty members

LDCE is marching ahead with strong and firm steps into the 76th year, sustaining its pace with current green trends, innovation and social responsibilities. We planned various activities like *INNOVATHON 4.0 - Summer Boot Camp 2023 organized by AARAMBH SSIP E-cell for school children studying in Standard 6th to 10th. This was the 4th edition of the series. The camp was free of cost for 3 days: May 17 to May 19, 2023 focussing to foster the creative spirits of school kids through games, interaction, ideation and hands-on exercises. Another activity was the National Technology Day 2023, in collaboration with the Institute for Plasma Research, Gandhinagar, organized on 18th and 19th May 2023 which was followed by various sub-events like IPR Model exhibition on Plasma and its Applications, QuizTech, Technical Model Display, Technical Skit, Elocution, Circuit debugging, Code Debugging, SkyGazing, Drafting Dynamics, eChai Pitch Day, SSIP Summer Boot camp and eChai session.



Mental health has taken a vital place in everyone's life; and the teaching community is no exception. Developing a working style to maintain a fine balance in professional and personal life is the need of the hour. Therefore to educate faculty members regarding importance of mental health a session was arranged in which Dr Prashant Bhimani, Senior Consultant Psychologist, Healthy Minds, Ahmedabad conducted a session on “Stress Management – મનદુસ્તી” on 18th April 2023.

On 20th June 2023 LDCE Foundation Day was organised with Innovation Ecosystem as its theme. Faculty members were felicitated for their contribution in Research and Patent publication, & student mentoring in the academic year 2022-23. Shri Banchha Nidhi Pani (IAS), Commissioner, Technical Education, GoG presided the function as a Chief Guest & Shri Vivek Kapadia, Secretary, GoG & Director, SSNNL was the Guest of Honour.

LDCE has won 4 ISTE awards for the year 2021-22 in various categories, Best Woman Teaching Faculty, Best Engineering College, Institution who has the highest number of members and Best Institute for Contributing in social activities.

Another feather to our Crown - LDCE is ranked in the Top 5 engineering colleges of Western Region by India Today.

My Best Wishes,
Prof. R. K. Gajjar
30th June 2023



Major events

- Kaizen-23 was organized on 9th-10th May 2023 to felicitate the top 3 winners for projects and internships. In this context, this year 853 teams consisting of 1433 students were exhibited and evaluated meticulously by committees of 40 judges from renowned Industry and R&D organizations. Shri Sudhir Naik (Senior Vice President, Infochips) graced the occasion as a chief guest for the award ceremony on 10th May 2023. Shri Jaimin Desai (Group Director, SAC ISRO) and Shri Ashwin Patel (Director, NACE, AMBP) were prestigious Guest of Honor and well known personalities, who graced this reverberating event. More than hundred students were felicitated as winner Kaizen-2023. The witnesses of this flourishing event were very well benefitted by motivational words of all the eminent guests. During the event, the pure motives and innovative efforts of winners were appraised all over again by the spectators.

Sr. No	Name of Department	Total Number of Final Year Students in BE	Number of students undergoing Industrial Internship	Number of students carrying out IDP Project	Number of students carrying out UDP Project	Number of groups undergoing internship	Number of students undergoing internship individually	Number of groups carrying out project (IDP/UDP)	Number of students carrying out project (IDP/UDP) individually	Total teams
1	Applied	72	70	0	2	0	70	0	2	72
2	Automobile	75	72	0	3	0	72	1	0	73
3	Biomedical	82	72	10	0	13	21	3	0	37
4	Chemical	79	79	0	0	16	20	0	0	36
5	Civil	107	107	0	0	27	0	0	0	27
6	Computer	176	167	4	5	25	72	1	7	105
7	Electrical	161	158	0	3	37	33	1	1	72
8	EC	161	134	12	17	9	102	11	9	13
9	Environment	78	78	0	0	23	20	0	0	43
10	IC	76	56	3	16	45	43	12	7	45
11	IT	165	143	12	10	23	53	5	12	93
12	Mechanical	167	165	0	2	0	165	1	0	166
13	Rubber	35	35	35	0	8	14	8	14	22
14	Plastic	37	37	0	0	10	12	0	0	22
15	Textile	60	60	0	0	14	13	0	0	27
			1433	76	58	250	710	43	52	853

Details of Students Internship/Projects										
Sr. No	Name of Department	Total Number of Final Year Students in BE	Number of students undergoing Industrial Internship	Number of students carrying out IDP Project	Number of students carrying out UDP Project	Number of groups undergoing internship	Number of students undergoing internship individually	Number of groups carrying out project (IDP/UDP)	Number of students carrying out project (IDP/UDP) individually	Total teams
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2	Automobile	75	72	0	3	0	72	1	0	73
3	Biomedical	82	72	10	0	13	21	3	0	37
4	Chemical	79	79	0	0	16	20	0	0	36
5	Civil	107	107	0	0	27	0	0	0	27
6	Computer	176	167	4	5	25	72	1	7	105
7	Electrical	161	158	0	3	37	33	1	1	72
8	EC	161	134	12	17	9	102	11	9	13
9	Environment	78	78	0	0	23	20	0	0	43
10	IC	76	56	3	16	45	43	12	7	45
11	IT	165	143	12	10	23	53	5	12	93
12	Mechanical	167	165	0	2	0	165	1	0	166
13	Rubber	35	35	35	0	8	14	8	14	22
14	Plastic	37	37	0	0	10	12	0	0	22
15	Textile	60	60	0	0	14	13	0	0	27
			1433	76	58	250	710	43	52	853

- An expert, Ms. Preeti Chothani Founder & CEO of Shree Datta Law Consultancy and President, Gujarat State Intellectual Property Council, WICCI; was invited to talk on Introduction of IPR and Patent to celebrate “World Intellectual Property Day”, The talk was on 26.04.2023 on hybrid mode. More than 50 students participated.



- The department of Applied Mechanics had organized Two days training on Basics of Disaster Risk Management & Developing Institute Level Disaster Risk Management Plan in association with Gujarat Institute of Disaster Management (GIDM) under the aegis of The Institution of Engineers (India) Student Chapter, which was attended by 102 students. Major. Dr.C.S.Sanghvi (Head, Applied Mechanics) was the convener and Prof. A.G.Hansora, Prof. Poonam I. Modi, Prof. B.R.Patel and Prof. Y.J.Chauhan were the coordinators. The resource and liasoning person from GIDM was Shri Piyush Ramteke.



- A Virtual Lab Workshop was conducted for 6th semester students, covering Chemical Reaction Engineering -I Lab (May 8), Advance Separation Processes Lab (May 4), Petroleum Refining and Petrochemicals (May 3), and Pollution Control and Safety Management (April 26) in 2023.



- The Computer Engineering Department celebrated after the accreditation from NBA and a thanks giving meeting was conducted to felicitate Dr. S.M. Shah (former HoD, Computer Engineering Department) and Dr. R.K. Gajjar (Principal, LDCE).



- The Audio Visual Recording Setup was inaugurated on 26th April 2023 in the esteemed presence of Dr. R.K. Gajjar madam, Shri Ragesh Bateriwala Sir, HODs and Faculties from various departments.



- Fruit-tree plantation drive was organized at the IC department by faculty and staff members of the IC department. Around 25 trees of various fruits including Mango, Custard Apple, etc planted at the department garden.



- IC department students had organized an event named Parichay 2.0 with the objective of Networking with junior students which includes fun games, general quiz, and plenty of opportunities to make new friends and memories on 5th May 2023, Prize was given to the winner in various categories.
- IC Department faculty Dr. Manish Thakker and Prof. H.K. Shastri visited Indo- Israel Center of Excellence for fruits and vegetables, also visited the greenhouse, net house, hydroponics technology for Protected Cultivation and Precision Farming at Prantij on 7th June 2023 and interacted with the project director. .
- IC Department faculty Dr. Manish Thakker, Prof. V.P.Patel and Prof. M.C. Patel visited PRL SindhuBhavan campus and explored various laboratories, live projects and interacted with the PRL scientist on 4th May 2023. Also got the chance to see sun with high resolution telescope.



- An Appreciation Ceremony was organized for Winners of India's biggest Robotics Competition, ROBOFEST- GUJARAT 3.0 Competition at Mechanical Engineering Department on 4th May 2023. 5 winning teams were recognized for their exceptional work in the categories of Submarine and Underwater Robot, Two Wheeled Self Balancing Robot and others.



- All faculties attended the Expert Lecture under G20 Initiatives “Stress Management” organized at the college on 18 th April 2023.
- Dr. Ashwin Thakkar from Textile department addressed the participants during Interactive Session “Expand Your Business Globally with SAIF Zone (Govt of Sharjah), UAE organized in association with ASSOCHAM and GCCI on 6th April 2023.
- “An Ampere Adventure” Event was organized on 13/04/2023 by the EC Department and IETE club to promote technical knowledge among students and provide them a platform to showcase their skills, comprising two rounds, a quiz, and a treasure hunt with 45 participants from the college.



- The EC department and IETE Student forum celebrated “World Telecommunication Day” on 17/05/2023 by organizing a GK and technical Quiz amongst 40 students with 2 winners felicitated by prize.

Filter making event on 22-04-2023

- The Environmental Engineering department celebrated Earth Day on 24th April 2023 by organizing a Filter Making Competition.



- An awareness rally was organized by the students and faculty members of the Environmental Engineering Department to celebrate World Environment Day 2023. It was on the theme of Beat the Plastic Pollution.



- Mathematics Challenge 2023 competition was organized by the Science and Humanities department for the first year B.E students of L. D. College of Engineering, Ahmedabad to motivate and encourage engineering students to strengthen their mathematics knowledge and to prepare them for a healthy competition. The event was promoted and sponsored by Prof. A. R. Rao Foundation, Gujarat Ganit Mandal and the Alumni Association of L. D. College of Engineering (LAA). The format of the competition involved three different rounds: 1) Selection Round, 2) Problem Solving Round, 3) Quiz Round. The questions of the Quiz were contributed by a team of internal and external experts. Internal experts were mainly the Mathematics faculty of the college whereas the two external experts were Dr. Udayan Prajapati (St. Xavier's College, Ahmedabad) and Dr. Sachin Gajjar (Government Polytechnic, Kheda). The Mechanical team was declared as the winner and the Computer team was declared as the runners-up in this competition. We received very good feedback from the students about this program and that itself can be termed as a success of this event



- Information Technology department under the coordination of faculty members Mital Panchal , Alka Patel organized "Workshop On SDLC" for BE Sem 6 students on Tuesday, April 25, 2023, The event's main speaker was AJAY OJHA who has 16+ years of experience in this field. Total 92 students participated in the event.
- On April 29, 2023, the Information Technology department organized a one-day workshop on "Research paper Writing" for ME and MCA students under the direction of professors Prof. Shital Solanki and Prof. Jahanvi Patel. This event attracted about 30 students. The key elements of a research paper, such as planning and outlining, literature reviews, writing techniques, results and discussion, and publishing, have all been expertly explained by Dr. Kuntesh Jani. Dr. Safvan Vahora gave a thorough introduction to Latex, a well-liked document preparation programme used in academic and scientific writing, online on MS Teams, in the second half of the event.



- Electrical Department received approval from AICTE to commence Post-Graduate Course with Specialization in Electric Vehicle at Electrical Engineering Department from the year 2023-24
- I.E.I. Students' Chapter at Electrical Engineering Department organized a workshop-'Real Time Application of Arduino' on 05/05/2023. The workshop was conducted by the senior students aiming to transfer knowledge to their junior students. The workshop was coordinated by Prof. (Dr.) Kunal A. Bhatt, Assistant Professor of Electrical Department. Bhatt and Abhay Gosai, Student Coordinator, IEI Student Chapter, EED, LDCE.





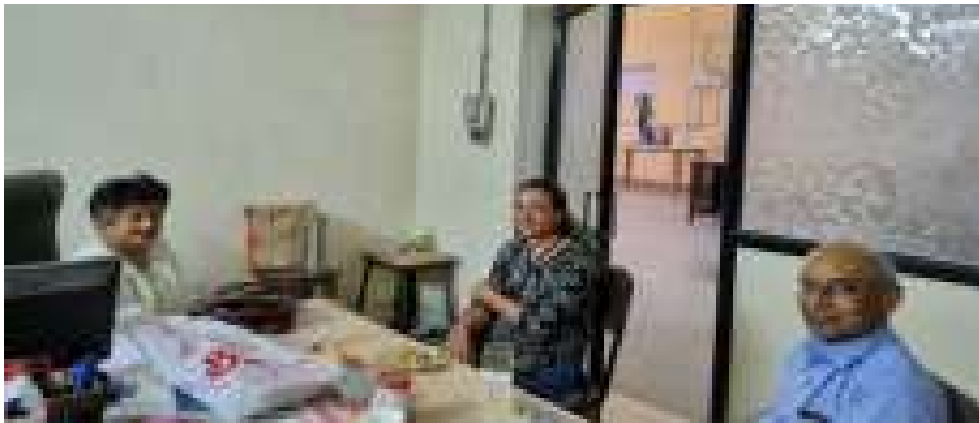
- A Placement Awareness session was conducted on 08/05/2023 at the Electrical Engineering Department by the final year students of the department for pre-final year students to help them to be placement-ready.



- An Open House Project Exhibition cum Showcase was organized at Electrical Engineering Department on 24/05/2023, by the students under the subject of Design Engineering, Semester-6.



- The Rubber Technology Department has arranged a Placement of Ami Polymers for BE VIII Sem students on 11th May 2023.
- Head of Plastic Technology Department, Prof. Bharati Basantani had a meeting with Mr. Nitin Pandya of Prasad Engineering Pvt. Ltd. Discussion regarding regular expert lectures, industrial visits, internships and placement was done.



Industry - Institute Interaction

- 40 students along with Dr. V R Patel and Prof. J P Vasani visited the International Automobile Centre of Excellence Gandhinagar on 6 April 2023.



- The Department of Automobile Engineering had organized an expert talk on “Business Model Canvas for startup” under IIC on 20 April 2023. Dr. Ragesh Kapadia, Professor and Head of Automobile Engineering Department has delivered expert talk on this. More than 50 students have attended this.



- The Department of Automobile Engineering had organized an expert session on “Modern Battery Technology” under the banner of G20 and SAE India on 21st April, 2023 at V. J. Jani Hall. Mr. Chirag Sankhla, Operation Head, Solance Industry, was invited to deliver the session on above mentioned title. Dr. R J Jani, Prof. M A Shaikh, Prof. K V Vagehla and Prof. B H Kadiya have coordinated the same and more than 120 students have taken advantage of this talk.



- Industry Visit at Solance Industry Ltd: As a part of the curricular activities, Automobile Engineering Department has organized the industry visit at Solance Industry Ltd at Bavla (Dist: Ahmedabad) on 06/05/2023 (Saturday). 11 students along with two faculties named Dr. R. J. Jani and Prof. K. V. Vaghela has visited this industry. Solance is the leading manufacturer of lead acid batteries in India who supplies various lead acid batteries ranging from small size to large size which has applications ranging from domestic small household instruments to automotive applications.



- Expert talk delivered by Mr. Tarun Nehra (Leadership Expert) on leadership skills under the banner of TCS-YEP programme at L.D.College of Engineering, Ahmedabad on 26th May, 2023. More than 100 students have participated in this lecture.
- An expert lecture was arranged by the Applied Mechanics department on the topic "Design of Transmission Towers" on 9th June 23 by Mr. Viral Kapadia, senior design engineer at Space Structural Consultancy Services and also an independent registered structural consultant.
- An expert lecture (offline) was arranged by the Applied Mechanics department for ME sem-2 students on the topic "Design and Construction of Transportation Structures – Industry Practices in Middle East Africa" on 27th June 23 by Mr. Jay Patel, Senior Design engineer (Bridges & Tunnel), Parsons Corporation, UAE.
- The department of Applied Mechanics in association with Bureau of Indian Standards (BIS) had organized an industry trip to BISAG-N on 1st June 23 for B.E. Sem IV students and 50 students were part of this visit, coordinated by Prof. A. J. Shah, Prof. A. G. Hansora, Prof. K. A. Parmar.



- Students of ME Sem-II Civil (Structural Engineering) had attended a two-day workshop on draft development and building regulations, 2022 for the state of Gujarat (6th & 7th June 2023) organized by Bureau of Indian Standard (BIS) at Ahmedabad Management Association Complex.
- An industrial visit to KBM Engineering Research Geotechnical Lab was arranged by Dr. Manish.V.Shah and Prof. Shalini R. Singh for ME Sem-II(Geotechnical Engg.) students. The visit was conducted on 14th June 2023 and consisted of demonstration of field and laboratory tests along with their suitability. Also, the current practices adopted by the experts while exploring sub soil.



- The department of Applied Mechanics in association with Indian Geotechnical Society LDCE Student chapter, organized a Webinar on “The Vital Role of Geotechnical Engineering and Soil Testing in Construction Projects” on 22.4.23. The webinar was delivered by Er. Darshan Chhatbar, Principal, Earthwork Engineer, SYSTRA, Dubai. Dr.M.V. Shah moderated and Prof.S.R. Singh coordinated the Webinar.
- 6th semester students of Chemical Engineering had a one-day industrial visit at Sterigold Medipack, Survey no. 158, Plot no. 29, Kalpataru industrial estate, Village Karoli Ta. Kalol, Dist, near Khatraj, Gujarat.
- Dr. S. R. Shah visited Meghmani Organics Ltd. Dahej, as a part of industry institute interaction on 11th May 2023, Thursday.



- Mr. Royal Parmar, Production Engineer at GACL, delivered an expert lecture on "Recent Advances in Byproduct Utilization in Chlor Alkali Industries" to 4th and ME 2nd semester Chemical Engineering students on June 12, 2023.
- Dr. Piyush Modi, Assistant Engineer - Deputy General Manager at Twin Engineers, Vadodara, delivered an expert lecture on "Microwave Assisted Extraction for Environmental Application" to 6th semester Chemical Engineering students on May 9, 2023.
- Dr. Avani Divatia, Assistant Professor at St. Xavier's College, Ahmedabad, delivered an expert lecture on "Types of Intensified Bioreactors" to 6th semester Chemical Engineering students on May 4, 2023.
- Dr. Kinjal Bhatt, Assistant Professor at St. Xavier's College, Ahmedabad, delivered an expert lecture on "Bioprocesses for Production and Wastewater Treatment" and "Separation of Cells" to 6th semester Chemical Engineering students on May 4, 2023.



- Techno IT Hub partnered with Govt. Polytechnic for Girls, Ahmedabad, for Info Zest Technical Week (April 10-15, 2023). Featured Digital Marketing, Machine Learning, Java OOPS, Practical Sessions, Fundamentals, and Expert Talks in line with NEP-2020.



- L D College of Engineering's Computer Engineering department organized a webinar under Supercomputing Facility on "Web3, Smart Contracts & Blockchains", delivered by Nihar Shah on 05.05.2023.
- Mozilla India hosted an event in the Computer Department of L. D. College of Engineering on May 4th, 2023. Mehul Patel and Viral Parmar spoke about their experiences as Mozillans.
- A workshop was conducted in the Computer Engineering Department on "BlockChain Technology and Web3" on 29th April, 2023 by Mr. Mitrang Lad.



- A session on "Career Opportunities in Fabrication Industry" was organized for Mechanical Engg. students on 12th April 2023 by Mr. Sudhir Gandhi - Advisory to Board, Gujarat Infra pipe Ltd. More than 80 students and 10 faculties have participated and it was coordinated by Prof G N Sutaria and Prof. M D Chaudhari under the guidance of Dr. V B Patel and Dr. N V Bora.



- A seminar on “Project Management for engineers” was conducted by PMI student club on June 17, 2023 for Skill Development, higher study opportunities and awareness regarding opportunities in the field of Project Management for engineering students. Speakers for the event were Mr. Parth Joshi (Program manager of tech Mahindra, India PMI Champion) and Mr Alpesh savalia (Delivery Head of Aktiv software). Mr. Sandeep Karia was also in attendance as a mentor from PMI Gujarat chapter. Prof Dheeraj Chandra had coordinated the event.
- An Expert talk on “EV charger” was arranged on 4/05/2023 by the EC Department delivered by Shri Priyesh Pandya (Technical Manager, e-Infochips, Ahmedabad) attended by HOD Dr. C. H. Vithalani Sir along with other faculties and 65 students attended the session.



- The Environmental Engineering department organized an expert lecture on “Natural Disaster” by Prof. Dimpi Shah for BE second year students dated 13/04/2023 under G20. Total 50 students attended the expert lecture.



- The Environmental Engineering department organized an expert lecture on “House Plumbing” by Prof. Dipsha Shah, Associate Professor, CEPT University for BE second year students dated 13/04/2023 under G20. Total 51 students attended the expert lecture.



- An industry visit was organized for fourth-semester BE students by the Information Technology department with the help of faculty members Prof. Bakul Panchal, Prof. Shital Solanki, Prof. Kuntesh Jani, Prof. Pradip Patel, Prof. Ankit Patel, and Prof. Manoj Patel. On April 12, 2023, they went to the Institute for Plasma Research in Bhat Ahmedabad. The event attracted about 75 students.



- Under the direction of faculty members Prof. Bakul Panchal, Prof. Shital Solanki, Prof. Purvi Ramanuj, Prof. Jahnavi Patel, Prof. Kuntesh Jani, Prof. Swati Patel, Prof. Mital Patel, Prof. Alka Patel, and Prof. Manoj Patel, the Information technology department organised an industry visit of eInfochips for six semester students on 4th May 2023. eInfochips is an Arrow company and a leading global provider of product engineering and semiconductor design services. The activity was participated in by twenty students.



- Under the guidance of faculty members Dr. Purvi Ramanuj, the Information Technology Department hosted a project presentation and discussion with the winning team of the Azadi ka Amrut Mahotsav on May 12, 2023, at Adani, 2nd Floor, Commerce House-07, Prahlad Nagar. The exercise was participated in by Tirth shah and team.
- Expert advice given to industry, in one of their ongoing R&D projects led by Mr. Sameer Bhatt at eInfochips was organized on May 24, 2023 by the information technology department under the direction of Dr. Kuntesh K. Jani.
- An Interaction and Inspiring session on “How to Crack Personal Interview” by Shree Rohan Garg, an alumni of IIM Kolkata was organized for pre-final year students of Electrical department on 18/04/2023.





- Prof. Sudeep Anand, Associate Professor, Department of Electrical Engineering, IIT Bombay, interacted with one of the students' groups-"Celer" -pursuing SSIP based project on 20/04/2023 and shared his valuable inputs. Prof. Mihir Vasavada mentors the group.



- On Thursday, May 4, the IAB met with the Information Technology department, headed by Dr. Purvi Ramanuj, to consider industry institute partnerships with IAB members.
- The Electrical Engg. Department organized online Expert Lectures on "Current and Future Research in Power Electronics & Opportunities for Joining the Research Group at I.I.T Bombay" by Dr. Sudip Aanand, Associate Professor of IIT Bombay on 20 April 2023.
- An Industrial visit at Transformers & Rectifiers Ltd, Ahmedabad was arranged by the Electrical Engg. department on 20/04/2023 and 21/04/2023.

- The Rubber Technology Department has arranged a Placement of Ami Polymers for BE VIII Sem students on 11th May 2023.
- Head of Plastic Technology Department, Prof. Bharati Basantani had a meeting with Mr. Nitin Pandya of Prasad Engineering Pvt. Ltd. Discussion regarding regular expert lectures, industrial visits, internships and placement was done.



- An Expert Talk of Dr. Meeta Matnani, Electrical Consultant on “Inverter Technology” was arranged by Dr. C.D. Upadhyay on 02/05/2023.
- Alumni of IC Department Shri. B. R. Mehta Ex. Vice President of Reliance Industry along with Shri. Bijal Sanghvi (Director - Axis Automation Solution) Visited on 3rd April 2023 and discussed various recent technologies along with alumni-led projects with Principal Dr. Rajul Gajjar Madam and faculty of IC Department.



- The Plastic Technology department arranged a pedagogy meeting with IPI- Ahmedabad office-bearers Mr. Chetan Shah, Mr. Gopalbhai on 6th April 2023. Discussion regarding arrangement of expert lectures and industrial visits for the students was done for the coming new semester.



- Prof Kintu Jain visited Prutha Packaging Ltd. and had a meeting with Mr. Digant Patel for industrial visit, internship and placement
- An expert lecture on “Biodegradable & Compostable Polymers” has been organized for students of B.E. Rubber Technology on 26th April 2023. Prof. R.N.Desai has arranged the session and Mr. Prakash Patel, Founder, Vision Industries has delivered the session. Prof. S.J.Padhiyar has coordinated and all faculties of Rubber Technology department have attended.



- The Rubber Technology Department has arranged a pedagogy meeting with Mr. Joel Lalucherian, Rubber Alumni, technical head, Burger Paint on “Latest development and use of rubber in Paint Industries” on 6th May 2023, coordinated by Dr. R.N.Desai.
- The department has arranged the Expert talk on “Career Opportunities in Tyre Industries” for B.E. VI SEM students of Rubber Technology on 26th May, 2023. The session was delivered by Mr. Tirath Patel, Divisional Head, Apollo Tyres Ltd.

- The Rubber Technology Department has arranged a pedagogy meeting with Mr. Megh Patel, Rubber Alumni, R&D, Adhesive division, Astral on “Utilization of rubbers & resins in Adhesive formulation” on 27th June, 2023 coordinated by Dr. R.N.Desai.
- Prof. R.N.Desai had an interaction with Mr. Parin Sheth, president of RMWA: Rubber Manufacturers Welfare Association and Managing Director, Shreenath Rubber Industries for the future development of Rubber Testing laboratory in Gujarat region for benefit of medium & small scale rubber industries as well as for benefit of students and faculties for their research project & Dissertation work on 4th May 2023.
- Prof.S.J.Padhiyar had an interaction with Managing Director of Precise Industries for students’ development by increasing industrial exposures for Rubber Technology students on 26th June 2023.
- Prof. S.J.Padhiyar had communicated with technical head, Technobiz and faculties of Rubber Technology department has attended the online session on "Advances in Rubber Testing Instrumentation" hosted by TechnoBiz on 28th April 2023.
- Prof. A.D. Bhatt had an interaction with Shweta Parihar, HR – Executive, Western Rubbers India Pvt Ltd. to avail better career opportunities in the field of Rubber Technology on 4th May 2023.
- Prof. A.D. Bhatt & Prof. B.D.Patel had an interaction with Committee members, RMWA, regarding Students Internships and industrial visit on 20th June 2023.
- Prof. R.Y.Modan had an interaction with Mr. Nikunj Thakkar, Marketing Manager, GP Petroleums on Rubber industry scenario and market situation on 14th June 2023.
- The industrial visit was organized for students of BE semester IV, Rubber Technology at Lead Reclaim and rubber pvt ltd, Ahmedabad on 6th May 2023. Prof. A.D. Bhatt & Prof. G.G.Bhatt have accompanied the students.



- An expert lecture was organized on 26th April 2023 for the students of Plastic Technology Department on “Intellectual property Rights” as a part of IPR day celebration. The lecture was addressed by Miss. Mahika (Masters in Law, Vir Narmad University).



- An expert lecture was organized by the Plastic Technology Department along with Indian Plastic Institute Ahmedabad Student's Chapter Titled: “RADIATION HARDENED POLYMER COMPOSITES ”. The Speaker for the event was Ms. Mamta Saiyad, Associate Professor, Nirma University.



- Shubham Extrusion visited the Department on 11th May 2023 for placement of final year students. A company video which was shown which was followed by pre placement talk and written test. Six students were shortlisted and called for interviews and out of these students Aakash singh Patel was selected as a graduate Engineer Trainee.



- The Mechanical department had organized an internal review 2 for Industry Internship on 24th April 2023 in online/offline mode for final year students. Major companies/industries selected students for internship include SAC - ISRO, Tata Motors Ltd., L & T, Harsha Engineers International Ltd. , CEAT tyres, Voltas, Hitachi, Raymond Ltd. and many more.



Research & Development

- A Session on “Orientation of startup and innovation” for 1st year and 2nd year E.C students was held on 05/05/2023 with the aim to orient students about SSIP 2.0 policy and encourage them on why to choose a startup. Head, EC Department, Dr. C. H. Vithlani, SSIP Coordinator, Dr. Manish Thakkar; Dr. Sanjay Prajapati, IPR and Research coordinator along with department SSIP coordinator Dr. Nirali Kotak were present along with 122 students.



- The Computer Department's Dump Drivers Team, led by Prof. Zishan Noorani, consisting of Akash Parmar, Hardik Rathod, Niyati Thakar, Raj Tada, Jay Patel, and Muskan Gidwani, advances to the next round of the Kavach Hackathon with their RAM dump collection tool.

	BASIC DETAILS OF THE TEAM AND PROBLEM STATEMENT
	PSID :KVH-010
	Problem Statement Title: RAM dump collection tool
	Team Name: Dump Drivers
	Team Leader Name: Akash Parmar
	Institute Code (AISHE): C-212
	Institute Name: L. D. College of Engineering, Ahmedabad.

TEAM MEMBER DETAILS

Sr. No.	Name of Team Member	Branch (Btech/Mtech/PhD etc):	Stream (ECE, CSE etc):	Year	Position in Team (Team Leader, Front end Developer, Back end Developer, Full Stack, Data base management etc.)
1	Aakash Parmar	BE	CE	3 rd	Team Leader, Security Researcher
2	Hardik Rathod	BE	CE	3 rd	Security Analyst
3	Niyati Thakkar	BE	CE	3 rd	Web Developer
4	Raj Tada	BE	CE	3 rd	Python Developer
5	Jay Patel	BE	CE	3 rd	Security Researcher
6	Muskan Gidwani	BE	EC	3 rd	Python Developer

TEAM MENTOR/S DETAILS

Sr. No.	Name of Mentor	Category (Academic/Industry):	Expertise (AI/ML/Blockchain etc):	Domain Experience (in Years)
1.	Zishan Noorani	Academic	Network Security	B+



- Ideation on designing “Two Wheeled Self Balancing Robot” in the India’s biggest Robotics Competition, ROBOFEST- GUJARAT 3.0 Competition submitted by the team from Mechanical department comprising of Suthar Jay Anilbhai, Patel Dhyan Yogeshbhai, Kumbhar Sagarbhai Narashibhai, Halpati Meet Ashokbhai and Kanth Harshraj Vivekanand under the guidance of Dr. Mrunalkumar Chaudhari of L D College of Engineering has been selected from Level I (Ideation) to Level II (Proof of Concept). The team has won a cash prize of Rs. 50,000/- for their creative idea of robot making titled “Two Wheeled Self Balancing Robot”.
- Ideation on designing robots in “Others Category” in the India’s biggest Robotics Competition, ROBOFEST- GUJARAT 3.0 Competition submitted by the team from Mechanical department comprising of Suthar Jay Anilbhai, Patel Dhyan Yogeshbhai, Kumbhar Sagarbhai Narashibhai, Halpati Meet Ashokbhai and Kanth Harshraj Vivekanand under the guidance of Dr. Mrunalkumar Chaudhari of Lalbhai Dalpatbhai College of Engineering has been selected from Level I (Ideation) to Level II (Proof of Concept). The team has won a cash prize of Rs. 50,000/- for their creative idea of robot making titled “AAPI”.
- Ideation on designing "Submarine and Underwater Robot" in the India’s biggest Robotics Competition, ROBOFEST- GUJARAT 3.0 Competition submitted by the team from Mechanical department comprising of Aayush Vasava, Hardik Vyas, Jyot Shayara, Samarth Soni and Vishwam Patel under the guidance of Dr. S S Pathan and Prof. G N Sutaria of Lalbhai Dalpatbhai College of Engineering has been selected from Level I (Ideation) to Level II (Proof of Concept). The team has won a cash prize of Rs. 50,000/- for their creative idea of robot making titled “VARAH”.



- Hackathon: One team of EC department has participated in ROBOFEST Event conducted by GUJCOST and won prize money Rs. 50,000 in ideation round. They have also participated in the POC round.
- For preparing POC students of IT department have been sanctioned below amount under SSIP 2.0.

Title of Innovation	Month year	Name of Team Leader/Applicant	Faculty Guide	Sanctioned Amount in Rs.	Funding Agency
Flamedots	May 2023	Pradhyum Arora	Dr. Purvi Ramanuj	1,55,000	SSIP 2.0
Citelligence	May 2023	Nayak Sahil Dharmendrabhai	Dr. Kuntesh K Jani	1,00,000	SSIP 2.0
Anti-Drone System	May 2023	Parmar Dhruil Vimalkumar	Dr. Kuntesh K Jani	2,49,000	SSIP 2.0

- Rs. 1.966 Lakh as a research grant has been sanctioned by Directorate of Technical Education, Gandhinagar on 23/02/2023 under the scheme of Research Promotion under Technical Education-STEM for the research proposal titled “Improvement of Lifecycle of transformer and induction motor using Point on Wave (POW) switching at low voltage level” submitted by Dr. K.A. Bhatt, Asst.Prof. EE Dept..
- The patent filed by Prof. Mihir Vasavada, EE Dept., along with students Jay Shah, Dipang Patel, Ratnam Shah and Shreyas Patel and titled as “An Off-Board Li-ion & LIFO4 Battery Charger with Variable Charging Rate and Variable Charging Voltage” has been Published by IP India on 12/05/2023.

- Proof –of-Concepts from the department of Applied mechanics have been sanctioned Financial support under the SSIP 2.0 Phase 2 order date 23.5.23. These POC's are Development of Low-cost Miniature Wave tank (Wave Simulia 1.0) under mentorship of Prof.Y.J.Chauhan and Dr.C.S.Sanghvi, Ecolatte Cafeteria under mentorship of Prof.C.D.Patel and Prof.B.R.Patel, Dual Flexible Triaxial Cell under the mentorship of Dr.ManishV.Shah.
- Dhruv Patel & Sukanya Rathod, students of Rubber Technology won the first prize of Rs. 3000/- for representation of Technical Model under the event National Technology Day 2K23 organized by PRAKALPA Club, L.D.C.E. on 18th & 19th May 2023 under the mentorship of Prof. G.G.Bhatt.
- Prof. A.D.Bhatt is currently working on “Development Natural Rubber Composites with Graphite and Graphene Oxide Filler” and gave a presentation on 11th April 2023.
- Prof. R.N.Desai & Prof. B.D.Patel are working on “Soil fertilization and Solid waste management”.
- Prof. Hetal Shah along with the students of 4th Semester attended the Gujarat Pitchathon arranged on 29th April 2023 at i-Hub Gujarat, KCG. The program was organized to nurture the investment ecosystem for startups in Gujarat.



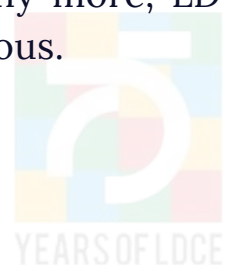
- On May 26, 2023, the Information Technology department hosted “SSIP 2.0 Unleash your STARTUP Potential” event for BE Sem 4 students at 3001, Annexe Building. The event was coordinated by Dr Kuntesh Jani. More than 100 youngsters took part in the activity.



- A panel discussion was organised by IEI Student Chapter under G20 at Department of Electrical Engineering, LD College of Engineering. In which 1. Electric vehicles- opportunities and pitfalls, 2. social media- pros and cons, 3. Economic advancement versus mental well-being were discussed in depth.

Student Achievements

- National level robotics competition DD Robocon 2023 was held this year by IIT Delhi in collaboration with Prasar Bharati. Team Robocon LDCE participated in the DD Robocon 2023. The theme of 2023 brought a lot of exciting opportunities and new challenges for the team. Team members learnt a lot of new skills, worked around a lot of innovative ideas and developed a lot of understanding of robotics and engineering. Team prepared the technical documentation for Stage-1 of DD Robocon 2023 and scored a perfect 100 in Stage-1. With even stronger conviction, the team started manufacturing the robots for Stage-2 (PoC round). All efforts paid off when the team scored 96 marks in Stage-2 and qualified for the DD Robocon 2023 Nationals on 17-18 June 2023.
- In the grand final round of National Awards Civil Competition-2022/23 organized by INSDAG (Indian Institute of Steel Development and Growth), three teams from L.D. College of Engineering, under the guidance of Prof Chintan D Patel, were crowned to all three positions as 1st, 2nd-A, and 3rd-A. The participating teams had to design A Steel Intensive Archery Academy with a hostel and had to present the same in the final round. Team W-04 consisting of members Chintan Makwana(ME), Sushil Patel(BE), Ravi Prajapati(BE) and Chandresh Naina(BE) secured first position among all teams and have been awarded with cash prize of INR 50,000/- with certificates and mementos. Team W-18 consisting of one postgraduate student KeyurRajpopat secured second position with prize money of INR 30,000/- .Team W-02 consisting of all BE final year students, Virat Raval, Raju Odedara, Riddhi Jadeja, and Parth Ragadwala secured third position with cash prize of INR 20,000/- with mementos. In the final round, among various premium colleges, including Trinity College of Engineering, NIT Kurukshetra, IITR, and many more, LD College of Engineering comprehensively emerged victorious.



- Students Vasu Shah and Rushit Chaudhari, under the mentorship of Prof. Poonam I. Modi had participated in Hackathon solutions for Waste Reduction organized by Marwadi University and were shortlisted in Top 30 for their solution on user defined problem entitled “End to End solution of C&D waste”.
- Team achieved the “Visvesvaraya Design Award” for the Best Design and stood 4th all over India. Team Leader of Robocon 2023 was Ms Manaswini Joshi and faculty coordinator was Prof. Mitul Makwana.



- Chintan Gadhavi, a 4th semester student, won "Second" prize in the "Technical Skit" competition at "National Technology Day - 2023," co-hosted by IPR, Gandhinagar, and L. D. College of Engineering, Ahmedabad on May 18-19.
- Patel Bhatikkumar, a 6th semester student, successfully finished a two-day workshop on "Process Modeling and Simulation Using Aspen Plus" at Ahmedabad University's School of Engineering and Applied Science.
- The listed 6th Sem students completed 12 Weeks online training of “Aspen Plus Simulation Software – a Basic Course for Beginners” on SWAYAM portal: Dudhat Jenishkumar Ranchhodbhai, Mitkumar Kalpeshkumar Thakor, Shaikh Mohammadkaif Shafakkathussain, Makadiya Keyur Himeshbhai, Dumraliya Niraj, Rathod Amisha Shaileshkumar, Bhogayata Haresh Ghanshyambhai.
- The listed 6th Sem students completed "DWSIM" training via Spoken Tutorial Project, IIT Bombay: Bhogayata Haresh Ghanshyambhai, Ashok Koriya, Keyur Makadiya, Jay Panchal, Shivkumar Joshi, Parthkumar Patel, Niraj Dumraliya, Dholakiya Himanshu, Shahil Solanki, Kunjan Malaviya, Nikhil Rana, Shahu Sujit.

- Three Computer Engineering students won the Mathematics Challenge, presented by Science & Humanities Dept. of L. D. College of Engineering on May 6th, 2023.
- LDCE's 'Nuanced Newbies' excelled at the 2022 International Collegiate Programming Contest, securing a national rank of 64 among 1300+ teams in the on-site regional round on April 2, 2023.



- Around 27 final year students of the Textile department got placed in renowned companies like Reliance, Welspun India, Nisan Clothsmith, Komal and Jindal Worldwide Ltd.
- IC Department 6th Student Viren Jain participated at DD ROBOCON 2023 and received prize in Robot Design at IIT Delhi



- 4th semester IC students participated at AGICEM (All Gujarat Instrumentation and Control Engineering Meet) organized by Nirma University on 30th April 2023 and received 1st prize mentored by Dr. A. K. Shah and Prof. Vandana Patel.



- Siddharth Rathod, Ashfaq Manihar, Udit Solanki, Dhruvin Thakkar of 4th sem EC participated in robofest and got selected for round 2(Proof of Concept). They built a Rover Robot for round 2 and got a prize money of Rs. 50000/- for selection in round 2 in the event “GUJCOST Robofest”.
- Radadiya Shruten Nitinbhai of 4th sem EC participated in the Event “DD Robocon 2023 Nationals” held on 17th-18th June 2023. His team got All india rank 4 and also got “All india best design award” among 50 teams.



LD એન્જિ.ની ટીમે બેસ્ટ ડિઝાઇનનો એવોર્ડ જીત્યો



તાજેતરમાં દિલ્લી ખાતે નેશનલ રોબોકોન સ્પર્ધામાં એલ.ડી. એન્જિનિયરિંગના મિકેનિકલ, ઇલેક્ટ્રિકલ તથા ઇલેક્ટ્રોનિક્સના વિવિધ

કમ્પોનન્ટ્સનો ઉપયોગ કરીને થીમ પ્રમાણે કાર્ય કરતા રોબોટની ડિઝાઇન ૩૦ સ્ટુડન્ટ્સ દ્વારા કરવામાં આવી હતી. સ્ટુડન્ટ્સની ટીમે તૈયાર કરેલ રોબોટની ડિઝાઇનને લઈને સ્પર્ધાનો બેસ્ટ ડિઝાઇન એવોર્ડ મળ્યો હતો.

- Kathan Master and Bavaliya Rajanikumar of 4th sem EC has secured 2nd position in the event “NTD 2023 CIRCUIT DEBUGGING” held on 18-19 MAY 2023 at LDCE
- Khushi Patel of 2nd sem EC won first price in folk dance which is held in event “Anass india “(AKHIL NATRAJAM AANTAR SANSKRUTIK SANGH) held on 25th May 2023. In addition she got best performance of the day award + best choreography award + best performance of the session award in the same event



- Tirth Shah, Pitroda Yash, Ayesha Padrawala, Vishal Patel, Aditi Darji, and Thummar Priyal, students from semester 4 of Information Technology Department, under the guidance of Prof. H. M. Diwanji Prof. N. P. Desai got selected as a team in the Grand Finale of Smart India Hackathon 2022.
- Trivedi Tanay of EE dept., secured position of, (1). 2nd runner-up in mimicry at inter-zonal level, (2). 2nd runner-up in duha-chhand at zonal level and (3). 2nd runner-up in mimicry at zonal level in Xitij 2022, a Youth Festival organized by GTU.



- Kirtan secured admission in M. Tech. in Control System at IIT Kharagpur on 10/06/2023.
- Team Robocon of LDCE including Manswini Joshi - Team captain (6th sem. Electrical), Jatin Khankhal - Team vice-captain (6th - Electrical), Vala Ankit (4th - Electrical), Sameer Bhatti (4th- Electrical) won Best Design Award and a cash prize of Rs. 10,000/-.



- In Interdepartmental Mathematics Challenge 2023 first prize was secured by the Mechanical department team comprising Mihir Bhogayta, Mayank Mohata and Divya Vaghasiya of first year.
- Total 46 students of BE Mechanical 4th and 6th semester have successfully completed IIT Bombay certification courses in Python, Qcad and Ardino under the spoken tutorial.
- Mr. Sachin Patil, student of Rubber Technology Sem VIII, got placement in Hyperlink Infosystem in April 2023.
- Mr. Rohan Rathod, Mr. Milan Patel, Mr. Pratik Talaviya, Mr. Rajak Bhatti, Mr. Sudhir Godhaniya and Mr. Yash Bhadani , total 6 students of Rubber Technology Sem VIII, were placed in BKT (Balkrishna Industries) in April 2023.
- Mr. Maulik Chauhan, Mr. Dhruv Patel, Mr. Shyam Chauhan, Mr. Saumya Rathod, Mr. Denis Savaliya and Ms. Sukanya Rathod, Team of Rubber Enthus, students of Rubber Technology, participated and won the first rank in the Technical Model competition conducting during the “National Technology Day-2023” event. This event was jointly organised by the Institute for Plazma Research (IPR), Gandhinagar, Gujarat and the L. D. College of Engineering, Ahmedabad during 18-19 May 2023.
- Mr. Jay Mavani and Mr. Raj Rajpara total 2 students of Rubber Technology Sem VIII, were placed in Academor in April 2023.
- Mr. Sandip Kanzaria has received a recognition letter for “Enabling Excellence” from Apollo Tyres Ltd. in May 2023.



Faculty Achievements

- Prof.Mazar Shaikh delivered an expert lecture on “Future Fuels for Vehicles” at A tion day of LD College of Engineering on 20 June,2023
- Prof. Jayendran Vasani was awarded for remarkable contribution in the field of D Patel Institute of Technology, CVM University, Karamsad on 9th May 2023.
- Prof.Mazar Shaikh has been awarded for best contribution as mentor on Foundation day of LD College of Engineering on 20 June 2023
- Prof. Jayendra Vasani delivered an Expert Lecture at the “enlightedED - Faculty Development Programme 2023” on 17- 18 June 2023 at BAPS Campus Sarangpur.
- Dr. C. S. Sanghvi, Dr. ManishV.Shah, Prof. ChindanD.Patel and Prof. Poonam I. Modi were felicitated for their remarkable contribution to the Innovation Ecosystem of college through high end research publications, student mentoring for Hackathon and National Level competition such as INSDAG and for Patent publication respectively for the year 2022-23. The faculty members were felicitated on Foundation Day celebration of LDCE on 20th June 23 amidst august presence of Shri Banchha Nidhi Pani (IAS), Commissioner, Technical Education, GoG.
- Prof. Chintan D. Patel & Prof. Bansal R. Patel delivered expert sessions on Testing and Inspection of Bridge and other Structures in a one day training programme conducted for Government Officials of Surat R&B Circle at SVNIT, Surat on 22nd June 2023.
- Prof. Yogesh J. Chauhan contributed as a reviewer in the esteemed review panel of one of the top Thai journals in Maritime Technology and reviewed research articles for Maritime Technology and Research (MTR).
- Dr. P. H. Rana, Dr. D. D. Mandaliya, Dr. S. M. Dutta, Dr. S. A. Amin and Dr. R. R. Patel received certificates of achievement from L. D. College of Engineering for remarkable contribution in research on 20th June 2023.



- Dr. T. S. Rajaraman received a certificate of achievement from L. D. College of Engineering for remarkable contribution in the field of Intellectual property rights through successful grant of patent on 20th June 2023.
- Prof. Zishan Noorani conducted a session on "Career Opportunities After 10th and 12th" - How to Think Differently—Don't Follow the Crowd" on June 3rd.



- Dr. Hetal A. Joshiara received recognition under the category of mentorship on the foundation day of L. D. College of Engineering on June 20, 2023.
- Dr. Komal G Dave, Professor, Mechanical Engineering Department, has been honored with one of the prestigious state level ISTE Gujarat secession award "ISTE GUJ-VBT State Award for Best Woman Teaching Faculty in Degree Engineering College " for year 2021-2022. She has been awarded by President ISTE, India Shri Dr. Desai at Inaugural ceremony of 26th State Annual Faculty Convention and Conference on 27th April 2023 at Indus University, Rancharda, Ahmedabad.



- Prof. M M Makwana coordinated Lakshya '23 fest with its 50+ events in technical, non technical and fun departments, covering the whole campus in a festive mood with its colorful decoration and lively audience from colleges from all over Gujarat. This year Lakshya '23 had the aim of installing the young minds with the idea of visualizing beyond the horizon, unfurling the wired mentalism of synergy amidst Humans and robots in the forthcoming future, an era ushering in infinite discoveries.
- Prof. M K Vyas and Prof. G N Sutaria worked as coordinators for 'Technical model display' event on 18th and 19th May 2023 for the two days "National Technology Day" celebration organized by Prakalpa Club in collaboration with Institute For Plasma Research, Gandhinagar and IIC cell LDCE.



- Dr. M. D. Chaudhari delivered an expert talk at Centre of Excellence - Welding, L. D. College of Engineering on 6th May, 2023 on the topic of "Welding Metallurgy" as a part of 10 days program "Fundamentals of Welding" organized for students.
- Dr. M. D. Chaudhari delivered an expert talk at Metallurgy Department, Government Engineering College Gandhinagar on 24th May, 2023 on the topic of "Phase Transformations in Solids" as a part of One-week webinar series on "Metallurgy & Material Science 2023", organized by Government Engineering College Gandhinagar in collaboration with Students Society of Metallurgy Engineers Gandhinagar.



- Dr. S S Pathan, Prof. Mitul Makwana, Prof. G N Sutaria and Dr. Mrunalkumar Chaudhari participated in the two-day "Orientation program for Proof of Concept (PoC) for Robo-making" held during 24-25th May, 2023 organized by India's biggest Robotics Competition, ROBOFEST- GUJARAT 3.0 Competition at Gujarat Science City, Ahmedabad.
- Dr. Mrunalkumar Chaudhari had organized a Demonstration of Olympus DSX1000 Metallurgical Microscope in collaboration with IR Technology Services Pvt Ltd on 17th May, 2023 from 11:00 AM to 06:00 PM in Room No. 603, Mechanical Engineering Department, L. D. College of Engineering.



- Prof. Mitul Makwana, Prof. G N Sutaria and Dr. Mrunalkumar Chaudhari received recognition for mentoring an award winning project in India's biggest Robotics Competition, ROBOFEST- GUJARAT 3.0 on the foundation day of L. D. College of Engineering on June 20, 2023.



- Prof. H.J. Jaiswal ,from the Textile department, worked as a Jury panel member for M. Des Fashion Merchandising batch of Parul University on 2nd May, 2023 at Parul University, Vadodara.
- Prof. Dr. C. H. Vitthlani was Reviewer in MGM Journal of Medical Sciences.
- Dr. S.B.Prajapati, Dr. P.P.Prajapati and Dr. N.A.Kotak were felicitated by an award for his “Research Publication” by L.D.College of Engineering on its foundation Day celebration on 20th June 2023



- Dr. Hiteishi Diwanji, Dr Purvi Ramanuj and Prof.Vidisha Thakkar received recognition for mentoring an award winning Hackathon team, on the foundation day of L. D. College of Engineering on June 20, 2023.
- EE Dept. faculties, Dr. K.A. Bhatt and Dr. J.K. Chavda for the Research Publication, Prof. M.R. Vasavada for Patent Publication and Mentoring and Prof V.M. Dholakiya for Mentoring student-led startup, received Certificates of Achievement during Foundation Day Celebration on 20/06/2023 in the august presence of Shree BanchhanidiPani (IAS), Commissioner of Technical Education Department, Gandhinagar.
- IC Department HOD Dr. Manish Thakker was felicitated for Coordination of Innovation activity at LDCE. Department faculty Dr. A. K Shah, Dr. Manish Thakker felicitated for contribution in SCI index journal. Dr. Manish Thakker, Prof. V.P.Patel felicitated for grant in patent on 20th June. 2023





- Prof. Gnanu Bhatt was awarded certificate of Achievement for remarkable contribution as mentoring of award winning projects and for remarkable contribution in the field of Intellectual Property Rights through successful grant of Patent (IPR), on the day of 20th June 2023, Foundation Day Celebration at L. D. College of Engineering.



- Prof. R.N.Desai & Prof. A.D. Bhatt attended an online meeting organized by research cell, L.D.C.E regarding motivation of women faculties for submission of research proposal under "A Special Call for Research Grant for Women Scientists" by The Council of Scientific & Industrial Research (CSIR) on 20th April 2023.
- Prof. Gnanu Bhatt along with SSIP participating students of rubber department attended a program on "Gujarat Pitchathon " on 29th April 2023 at i-Hub Gujarat. The program was organized by Student Startup & Innovation Hub (i-Hub) in association with ICAI, Anicut Capital, India Accelerator, Efficacy, Eques Capital, and Shuru Up to nurture the investment ecosystem for startups in Gujarat.
- Prof.R.Y.Modan attended a virtual conference organized by Wiley Analytical Science on "Specific heat capacity determination by DSC" and on "how to work faster, smarter and pain free with electronic pipettes" on 19th April and 20th April 2023 respectively.

- Prof.R.Y.Modan attended a virtual conference organized by Wiley Analytical Science on automating the laboratory: maximizing efficiency through smart solutions on 27th April 2023.
- Dr. Aswhin Thakkar from the Textile department, attended the Hohenstein Global Sustainability Conference on 13th April 2023



Community Engagement

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



NCC, NSS Activities

- NCC LDCE and NSS LDCE conducted a cycle expedition on 01/04/2023. The event has attracted Overwhelming participation of cadets and students.



- L D COLLEGE OF ENGINEERING organized a mega medical camp on April 20-21, 2023 with the assistance of NCC LDCE, NSS LDCE and LAA. Student Cell in association with Indian Red Cross Society & Lions Club of Ahmedabad for the first year students.



- Army attachment camp for SW was organized from 1st May to 14th May 2023, in Ahmedabad and Dhrangadhra.



- Cadets gave guard of honor to BRIGADIER N K RAIZADA, Ahmedabad NCC Group Headquarter on 02nd May 2023. BRIGADIER sir appreciated josh of CADETS.
- Army attachment camp for SD was organized from 15th May to 28th May 2023, in Ahmedabad.



- 1 GUJ CTC Cadets had arranged a rally on the WORLD ENVIRONMENT DAY, 26 May 2023, to encourage awareness and action for the protection of the environment.



- Cadets of 1GUJCTC carried out a tree plantation drive on 05th June 2023 across the campus of LDCE.



- Krishna Pareshkumar Bhavsar of 6th Sem EC has completed NCC course in June 2023.
- Shubham Golvelker and Disha Solanki of 4th sem EC worked in blood donation camp organized by NSS.



- Krishi Patel of 2nd sem EC worked as coordinator in Mega Medical camp organized by NCC on 19-20-21 April 2023.
- A smart classroom facility worth around Rs. 8 Lakh has been set up with the support from Alumni Donation in Room No. 204, 208 and 211 of EE Dept.
- Prof. S.J.Padhiyar has conducted an awareness program for On-line admission procedure of engineering course at Government Engineering College, Bhavnagar through ACPC on 06th May 2023.
- The girls students were motivated to participate in Technology@Career, an online webinar hosted by CII's India Women Network (Delhi) in collaboration with www.triedge.in. to gain valuable insights from senior tech professionals at IBM, EY, and Delhivery on April 19th, 2023.
- The Thalassemia test of first year students of the Rubber department was carried out under mentorship of Prof. A.D.Bhatt on 20-21 April 2023 organized by NCC at L.D.C.E.



Sports

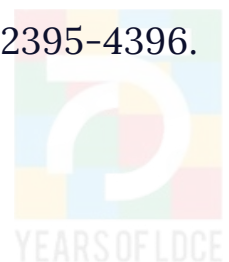
- Akshat Dave of 2nd sem EC has secured 3rd position in Kumite 70kg weight category during INDO-NEPAL International karate championship 2023 Organized by Nepal ShitoRyu Karate Association in “INDO NEPAL International Karate Championship 2023” held on 14 to 16 May 2023.



- Hrishikesh Singh won 2nd prize in shotput of impulse on 6th April 2023 at Cricket Ground of LD college of Engineering.
- Hrishikesh Singh won 3rd prize in Mini Marathon of impulse on 7th April at Cricket Ground of LD college of Engineering.
- Hrishikesh singh of rubber technology 4th sem has won 3rd prize in Kho Kho of impulse event held on 7th April 2023 at Cricket Ground of LD college of Engineering.

Paper Publications

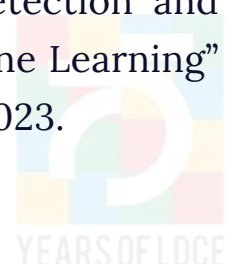
- Mahmad F. Dodhiya, Prof. Ashwin G. Hansora, "Study on Properties of Concrete by Using Marble Waste Material As A Partial Replacement of Fine Aggregate and Coarse Aggregate", International Journal of Science & Engineering Development Research (www.ijedr.org), ISSN:2455-2631, Vol.8, Issue 6, page no.1424 - 1431, June-2023,<http://www.ijedr.org/papers/IJEDR2306198.pdf>.
- Prof. Dr.G.M.Tank, Prof. K. A. Parmar and Nayan Valiya (PG Student) published a research paper entitled "Parametric Study Of Hollow Core Steel-Concrete-Steel Circular Composite Column Subjected To Eccentric Loading" in International Journal of Science and Engg Development Research (ISSN : 2455-2631) , Vol. No. 8, Issue. NO 6. June 2023, Paper ID - IJEDR2306175, Page No:1250-1254.
- Prof.M.G.Vanza and PG student Darshan Patel published a research paper entitled "Impact of the addition of Palm Kernel shell Ash content on the strength and compaction characteristics of Black cotton soil" in Journal of Emerging Tech. and Innovative Research ISSN : 2349-5162, Vol-10 Issue-5, pg 742-747, May 2023.
- Prof. Chintan D. Patel & Arpit Panchal (PG Student) published research paper titled "Experimental Study on Seismic Behavior of Adobe Masonry with Hemp Fibre Ropes" in International Journal of Advance Research and Innovative Ideas in Education, Vol 9, Issue 3-2023, Paper ID 20887, ISSN (O):2395-4396.
- Prof. Chintan D. Patel & Dhruval Panchal (PG Student) published research paper titled "Use of Cold Formed Steel as Reinforcement for Experimental Studies on Seismic Behaviour of Vernacular Structures" in International Journal of Advance Research and Innovative Ideas in Education, Vol-9, Issue 3-2023, Paper ID-20884, ISSN(O):2395-4396.



- Prof. Ashwin G Hansora, Prof. Chintan D. Patel & Sumey Shah (PG Student) published research paper titled “Experimental Assessment on Performance of Geo-Grid Mesh in Seismic Loading Condition on Adobe Structures” in International Journal of Advance Research and Innovative Ideas in Education, Vol-9, Issue 3-2023, Paper ID-20885, ISSN(O):2395-439
- Dr. R J Jani has published paper titled “Effect of Injection pressure variation on performance characteristics of CI engine fuelled with dual biofuel of neem and jatropha” in Journal of emerging technologies and innovative research in May 2023.
- Dr. R J Jani has published paper titled “Effect of Injection pressure variation on Emission characteristics of CI engine fuelled with dual biofuel of neem and jatropha” in Journal of emerging technologies and innovative research in June 2023.
- Dr. S. M. Dutta published a paper on “Progress and Perspective for Carbon Quantum Dots and Analogous Carbon-Based Nanomaterials in Augmenting Forward Osmosis Performance” in Separation & Purification Reviews, Taylor & Francis, page 1-22, on 11th May 2023. <https://doi.org/10.1080/15422119.2023.2207084>
- Dr. P. H. Rana published a paper on “Effect of Coconut Fiber as an Inert Media on Hybrid Upflow Anaerobic Sludge Blanket Reactor” in Journal of Environmental Engineering, Volume 149, Issue 9. DOI- <https://doi.org/10.1061/JOEEDU.EEENG-7325>
- Dr. R. R. Patel published paper on “Preparation, stabilization, and thermal characterization of CuO/water nanofluids applicable to domestic solar water heater” in Materials Today: Proceedings, 2023, ISSN 2214-7853, DOI - <https://doi.org/10.1016/j.matpr.2023.05.053>.
- Dr. D. D. Mandaliya published paper on “Elucidation of Active Sites and Mechanistic Pathways of a Heteropolyacid/Cu-Metal-Organic Framework Catalyst for Selective Oxidation of 5-Hydroxymethylfurfural via Ex Situ X-ray Absorption Spectroscopy and In Situ Attenuated Total Reflection-Infrared Studies”, ACS Catalysis 2023 13 (9), 6076-6092, on 18th April 2023. DOI - <https://doi.org/10.1021/acscatal.3c00872>

- Dr. Komal G. Dave and Prof Manta Patel have published a technical paper titled “Compacted graphite iron mass production challenges using traditional foundry practices” in Industrial Engineering journal ISSN : 0970-2555, Vol. 52, Issue 6, June 2023, of Indian Institution of Industrial Engineering.
- Dr. Komal G. Dave and Prof Nimisha Goswami have published a technical paper titled “A review on method for drilling operations and performance analysis of different materials” in international journal ‘High Technology Letters’ ISSN 1006-6748, Vol. 29, issue 6, June 2023.
- Prof Samir B Shah, Dr. Komal G. Dave, Dr. Vishvesh Badheka, Professor, PDUE and Prof Dhaval Patel, Professor, GEC, Palanpur have published a technical paper on title “Optimization of process parameters of Ultrasonic metal welding for multi layers foil of AL8011 material” in international journal ‘Welding International’, publication Taylor & Francis, Vol. 37, No. 3, page 119-127, April 2023., <http://doi.org/10.1080/09507116.2023.2192373>.
- Dr. Ashwin Thakkar, from the Textile department, and Dr. D.V. Bihola published a paper on “New Method for the Develop. of Seer Sucker Fabric and Comparative Study of Their Physical Parameters” in Zeichen Journal during June 2023.
- Dr. D.V. Bihola and Prof.H.J. Jaiswal, from the textile department, published a paper on “Optimization of Meta-Aramid Yarns” in Science, Technology and Development Journal during June 2023.
- Dr. D.V. Bihola and Prof.H.J. Jaiswal, from the textile department, published a paper on “The Effect of Yarn Structural Modification on Mechanical Properties of HDPE (High-Density Polyethylene) Braided Fishing Nets : A review” in Zeichen Journal during June 2023.
- Dr S.B.Prajapati has published a paper titled “Low Energy and Write-Efficient Spin-Orbit Torque based Triple-Level Cell MRAM” in the most reputed (Q2-Scopus and WoS indexed) journal IEEE Transactions on Magnetics, Vol 59, Issue- 7 ISSN No.: 1941-0069 on July 2023. Paper was accepted in 25th April 2023.

- Bina Birenkumar Patel and Paresh H. Rana published a paper titled "Effect of Coconut Fiber as an Inert Media on Hybrid Upflow Anaerobic Sludge Blanket Reactor." In *Journal of Environmental Engineering* journal, ASCE (SCOPUS index journal) volume 149, Issue 9, 2023: 04023047. <https://doi.org/10.1061/JOEEDU.EEENG-732>
- Prof. Shital Solanki along with ME student Chirag Vankar presented a review paper on the title "A Review on Phishing URL detection using various learning techniques" in ISTE National Conference on "Global Exigencies for Smart & Sustainable Technologies" on April 27, 2023. Paper will be published in the Proceedings of ISTE Gujarat State Annual Faculty Convention & Conference on "Global Exigencies for Smart & Sustainable Technologies."
- Prof. Swati Patel along with her guide Dr. Mehul C Parikh presented a review paper on the title "Key Frame Extraction from Video Sequence: On-The-Fly A Comparison and Analysis" in International 2nd International Conference on Data Science and Intelligent Applications (ICDSIA-2023) on 28-29 April 2023. Paper published in GU - JET (Gandhinagar University - Journal of Engineering and Technology), <https://www.gandhinagaruni.ac.in/publications/>, ISSN 2249 – 6157.
- Prof. Jahnvi Patel along with ME student Krishna Brambhatt published a review paper on the title "A Review on Deep-Learning Approach to Copy-Move Forgery Detection and Source-Target Disambiguation" in International 2nd International Conference on Data Science and Intelligent Applications (ICDSIA-2023) on 28-29 April 2023. Paper published in GU - JET (G'nagar University - Journal of Engg. and Tech.), <https://www.gandhinagaruni.ac.in/publications/>, ISSN 2249 – 6157.
- Dr. Mehul Parikh along with ME student Sapndan Joshi published a research paper on the title "Various License Plate Detection and Recognition Methods using Computer Vision and Machine Learning" in International ITM Web Conf. 53 02013(2023) in April 2023.



- Prof. Swati Patel along with her guide Dr. Mehul C Parikh published a research paper on the title “HYBRID AND BLIND WATERMARKING FRAMEWORK FOR PRIVACY PROTECTION AND CONTENT AUTHENTICATION OF DIGITAL MULTIMEDIA” in SCOPUS INDEXED JOURNAL Reliability: Theory & Applications. 2023, June 2(73): 24-38 on <https://doi.org/10.24412/1932-2321-2023-273-456-465> on June 2023.
- Dr. Mehul Parikh along with PhD student Param Aahir published a review paper on the title “A Review of Recent Advancements in Infant Brain MRI Segmentation Using Deep Learning Approaches” in SCOPUS INDEXED JOURNAL Lecture Notes in Networks and Systems, vol 645 on https://doi.org/10.1007/978-981-99-0769-4_39 on June 2023.
- Dr. K.P. Badgujar published a paper titled “EFFECT OF TEST CABLE TERMINATION ON FREQ. RESPONSE OF TRANSFORMER WINDING ” in International Journal of Electrical and Electronic Research UGC-CARE approved group II journal, Vol 11, Issue- 1e-ISSN No.: 2347-470 on March 23.
- Dr. Ankit K. Shah and Hardik Patel have published a paper titled “BOUNDARY-BASED HYBRID CONTROL ALGORITHM FOR SWITCHED BOOST CONVERTER OPERATING IN CCM AND DCM” in International Journal of Electrical and Electronics Research (IJEER) Scopus indexed journal, Volume 11, Issue-1, pg.no. 213-221 e-ISSN: 2347-470X DOI: 10.37391/IJEER.110129 on March, 2023.
- Dr. Ankit K. Shah and Hardik Patel have published a paper titled “BOUNDARY-BASED PWM CONTROL SCHEME FOR A DC-DC BUCK CONVERTER OPERATING IN CCM” in Transactions on Energy Systems and Engineering Applications Scopus indexed journal, Volume 4, Issue-1, pg.no. 1-17 ISSN: 2745-0120 DOI: <https://doi.org/10.32397/tesea.vol4.n1.504> on April, 2023.
- Usha B. Patel, Vandana V. Patel published a paper titled “Alzheimer disorders diagnosis system design using machine learning for EEG signal” in Journal of Control & Instrumentation, Volume 14, No. 1 eISSN: 2229-6972 in May 2023.

- Dr. Ankit K. Shah and Aarti Bokade have published a paper titled "CLASSIFICATION OF MAMMOGRAPHY IMAGES USING DEEP-CNN BASED FEATURE ENSEMBLE APPROACH AND ITS IMPLEMENTATION ON A LOW-COST RASPBERRY PI" in International Journal of Computing and Digital Systems Scopus indexed journal, Volume 13, Issue-1, pg.no. 1451-1463 ISSN: 2210-142X DOI: <http://dx.doi.org/10.12785/ijcds/1301117> on May, 2023.
- Dr. Ankit K. Shah and Aarti Bokade have published a paper titled "BREAST CANCER DIAGNOSIS IN MAMMOGRAPHY IMAGES USING DEEP CONVOLUTIONAL NEURAL NETWORK-BASED TRANSFER AND SCRATCH LEARNING APPROACH" in Indian Journal of Science and Tech. Web of Science indexed UGC-CARE approved journal, Vol 16, Issue-18, pg.no. 1385-1394 ISSN: 0974-6846 DOI: <https://doi.org/10.17485/IJST/v16i18.39> on May'23.
- Dr. Ankit K. Shah and Prof. Vandana Patel have published a paper titled "A SIGNAL CONDITIONING MODULE FOR DENOISING ELECTROCARDIOGRAM SIGNALS" in Transactions on Energy Systems and Engineering Applications Scopus indexed journal, Volume 4, Issue-1, pg.no. 56-67 ISSN: 2745-0120 DOI: <https://doi.org/10.32397/tesea.vol4.n1.506> on June, 2023.
- Prof. H.J. Jaiswal, from the textile department, published an article on "Study the Effect of Layers and Braid Angle on Mechanical Properties of Biaxial Braided Composite Rods" in Journal of the Textile Association.
- On June 19, 2023, a paper titled "HYBRID AND BLIND WATERMARKING FRAMEWORK FOR PRIVACY PROTECTION AND CONTENT AUTHENTICATION OF DIGITAL MULTIMEDIA" was published by Prof. Swati Patel and Dr. Mehul Parikh from the Information Technology Department in the Scopus-indexed journal Reliability: Theory and Applications, No 2 (73) Volume 18, June 2023, pp. 456-465. <https://doi.org/10.24412/1932-2321-2023-273-456-465>.



Professional Development

Sr No.	Title	Name of Faculty	Department	Organised by	Date
01	Implementation of OBC for Applied Science Courses	Prof. S. B. Bhatt	Chemical	NITTR, Ahmedabad	12/06/2023 to 23/06/2023
02	Education for Sustainable Development	Dr. D.V. Bihola, Prof. H.J. Jaiswal, Prof. S.K. Parmar, Prof. K.J. Ponda	Textile Technology	MOOC NPTEL	January-April 2023
03	Joy of Computing	Dr. C.H.Vitthlani	EC	NPTEL, SWAYAM	January-April-2023
04	Analog IC Design	Dr. S.B.Prajapati	EC	NPTEL, SWAYAM	January-April-2023
05	An Introduction to Artificial Intelligence	Dr. P.J.Brahmbhatt	EC	NPTEL, SWAYAM	January-April-2023

06	An Introduction to Artificial Intelligence	Prof. P.J.Muliya	EC	NPTEL, SWAYAM	January-April-2023
07	Optimisation for Machine Learning: Theory and Implementation	Prof. S.K.Gonsai	EC	NPTEL, SWAYAM	February-April-2023
08	Principles of Digital Communications	Dr. N.A.Kotak	EC	NPTEL, SWAYAM	January-April-2023
09	Principles of Digital Communications	Prof. R.K.Panchal	EC	NPTEL, SWAYAM	January-April-2023
10	Indian Poetry in English	Dr. Apexa Dharankar	Science and Humanities	NPTEL MOOC	Feb-Apr 2023
11	Implementation of OBC for Applied Science Courses	Dharitri Ramjibhai Gohel	Science and Humanities	NITTTR Bhopal	12th June to 23rd June 2023

12	"Global Exigencies for Smart & Sustainable Technologies"	Shital Solanki	IT	Indus University	27/4/23 to 27/4/23
13	"Global Exigencies for Smart & Sustainable Technologies"	Swati Patel	IT	Indus University	27/4/23 to 27/4/23
14	Data Science and Intelligent Applications (ICDSIA-2023)	Swati Patel	IT	Gandhinagar University.	28/04/23 to 29/04/23
15	Covering research in Engineering and Technology	Dr. Kuntesh K Jani	IT	Bangalore	24-6-23 to 24-6-23
16	Engineering Mechanics – Statics and Dynamics	Yogesh J. Chauhan	Applied Mechanics	SWAYAM-NPTEL (IITM)	Jan-Mar 2023 (8 weeks)
17	Retrofitting and Rehabilitation of Civil Infrastructure	Yogesh J. Chauhan	Applied Mechanics	SWAYAM-NPTEL (IITKh)	Jan-Apr 2023 (12 weeks)

18	Non-Destructive Tests in Forensic Applications	Yogesh J. Chauhan	Applied Mechanics	NFSU, Gandhinagar	13 – 14 Apr, 2023 (2 days)
19	Leadership and team effectiveness	Dr. Ankit K. Shah	Instrumentation & Control Eng.	IIT-Roorkee, NPTEL	Jan to April-2023 (12 Weeks)
20	Student psychology	R.N.Desai B.D. Patel S.J.Padhiyar	Rubber Technology	NITTTR	30/01/2023 to 28/04/2023

ME Dissertation

- Chemical Engineering Department

Sr. No.	Name of Student	Title	Name of Guide
01	Modi Ghanshyam Dharmendrakumar	REMOVAL OF METHYLPARABEN USING TAMARIND FRUIT SHELL AS BIOSORBENT	Dr. S.R. SHAH
02	Patel Keyurkumar Bhupendrabhai	STUDY & OPTIMIZATION OF RAW MATERIALS CONSUMPTION IN MANUFACTURING PROCESS OF VINYL SULPHONE ESTER.	Dr. H. N. PANDYA
03	Shah Drashti Nimishkumar	THERMAL PERFORMANCE ANALYSIS OF A DOMESTIC SOLAR WATER HEATER USING NANOFLUIDS AS HEAT TRANSFER FLUID	Dr. R. R. PATEL
04	Bhalerao Chintan Vikas	ZINC BASED CATALYSTS EFFECT ON DYE DEGRADATION UNDER ULTRA VIOLET AND SOLAR LIGHT	Dr. T. S. RAJARAMAN
05	Suthar Nileshkumar Kantilal	CATALYTIC CONVERSION OF CO ₂ INTO USEFUL HYDROCARBON PRODUCT	Prof. PRATIK PATEL



YEARS OF LDC

- Textile Technology

01	Varsha Tiwari	New Method for the Development of Seer Sucker Fabric and Comparative Study of Their Physical Parameters	Dr. Ashwin Thakkar
02	Jaysukh Sorani	The Effect of Yarn Structural Modification on Mechanical Properties of HDPE (High-Density Polyethylene) Braided Fishing Nets	Dr.D.V. Bihola Prof. H.J. Jaiswal


- Electronics and Communication Department

01	YODDHA SHIVANI KALPESHKUMAR	Verification of 400ZR OIF with VIP using System verilog UVM.	Prof Suresh Bharwad
02	RATHOD RUTVIK JITENDRABHAI	Microstrip based circuit and MMIC design	Prof Hitesh Desai
03	PEMMARAJU VENKAT RAJESHWARI	Dual linear polarized slotted array antenna for weather -RADAR application.	Prof M C Sahoo
04	NISHA KHERALA	Data flow drive in macro placement technique for buffer technology.	Prof Kirit Patel
05	PANCHAL DEVANSIBEN MUKESHKUMAR	Sanity checks and procedure to reduce the floorplan implementation cycle in physical design flow.	Prof Sanjay Prajapati



06	MISHRA ANJALI RAJESH	Mixed signal system on chip architecture consisting front end analog circuit for ADC converter.	Prof Kirit Patel Prof Pinky Brahmbhatt
07	CHAVADA NISHITABEN PRAKASHBHAI	Wideband stop filter using SIW.	Prof Anil Kshatriya
08	SHIVANGI JITENDRAKUMAR DEVMURARI	Multioctave bandwidth quadature hybrid and its maintenance in hybrid MIC.	Prof M C Sahoo
09	KACHA JEET MAYANKBHAI	Image forgery detection and technique to avoid cloning	Prof Nirali Kotak


- Environment Engineering

01	Makwana Mukund A	Artificial recharge of ground water in the campus of L.D. College of Engineering	Prof. G.H.Ban
02	Parekh Shivam	Phytoremediation of contaminated soils of municipal solid waste dumpsite	Prof. Y.M.Gajera
03	Dave Bhargav Piyush	Development of an emission inventory of air pollutants of industrial area	Prof. D.P.Shah
04	Thakor Sanjaykumar Vinuji	Lab scale study on reduction of NOx concentration from ambient air using titanium dioxide (TiO ₂) as a construction material	 Prof. A.S.Kuhikar

05	Isha Manojkumar Lad	Leachate treatment using fungi	Prof. B.B.Patel
06	Patel MinjalKumari Nileshbhai	Hardness reduction using waste plastic	Prof. B.B.Patel
07	Dave Aakanksha Bhavesbhai	Textile Industry Wastewater treatment using Alum sludge	Prof. Y.M.Gajera
08	Mehta Arpit Pritesh	Assessment of Volatile Organic Compounds(VOCs) emission from identified industrial area of Gujarat	Prof. V.V.Shah
09	Nirali Dipakbhai Patel	Performance evaluation of fixed bed adsorption column study using magnetic biochar for dye wastewater treatment	Prof. V.V.Shah
10	Patel DhruvKumar Girishbhai	Feasibility of metal recovery from discarded solar panels	Prof. Y.S.Rami
11	Dolia Prakruti Manishkumar	Comparison study between mixed metaloxide and graphite electrode for regeneration of activated carbon by electro-oxidation process	Prof. A.S.Kuhikar
12	Vasava Nikita	Mapping of electromagnetic fields from global system for mobile communication for north western zone of Ahmedabad city	Prof. Y.S.Rami

13	Patel Sidhdharth Rajeshbhai	Evaluating Technical Feasibility of treating dye wastewater using steel slag as adsorbent	Prof. M.J.Pandya
14	Solanki Swapnil Pravinbhai	Study on Textile wastewater treatment by Photo-catalysis process using zinc oxide .	Prof. C.J.Patel
15	Selamu Abate	Develop acoustic noise barrier by using waste material	Prof. D.P.Shah

• INFORMATION TECHNOLOGY DEPARTMENT

01	Spandan Joshi	Automatic Number Plate Recognition using Machine Learning	Dr. Mehul Parikh
02	Krishna Alkeshbhai Brahmbhatt	Copy-Move Forgery Detection with Source- Target Disambiguation using a Deep-Learning Approach	Prof. Jahnvi Patel
03	PATEL MONALI	Detecting emotions of memes using Hybrid approach of Deep Learning	Dr. Hiteishi Diwanji
04	RABARI RAMUBHAI SHAHARBHAI	DDOS ATTACK DETECTION USING MACHINE LEARNING	Dr. Purvi Ramanuj
05	Chirag Kumar Vankar	Phishing URL detection using hybrid Transformers and Graph Convolutional Networks	 Prof. Shital Solanki

06	Nagdevani Nikita Dilipkumar	Classifying Truck and Truck Load-limit using Image Processing	Prof. Swati Patel
07	Nirmal Parth Bipinbhai	Ophthalmic Disease Detection using Deep Learning	Prof. Bakul Panchal
08	Baria Ajay Punabhai	Stock Market Analysis and Prediction Using Machine Learning Technique	Prof. Mital K Panchal

• Electrical Engineering Department

01	Lakum Ashok Nagarbhai	Analysis of Subsynchronous Resonance in Series Compensated A.C Network With High Penetration of RES.	Dr. M.C. Chudasama Prof. Mitesh J. Sathvara
02	Bhadra Chetan Vasanttilai	Improvement in Efficiency By Optimisation of Parameter in Static Wireless Charging of Electrical Vehicle	Dr. Ketan Badgujar
03	Unecha Manthanbhai Baldevbhai	Transient Analysis of Ferroresonance Effect in Capacitor Voltage Transformer (CVT) And its Mitigation	Dr. Jyoti Iyer Dr. Jiten Chavda Mr. V. Diviya Teja
04	Dave Sumitkumar Shashikantbhai	Speed Control of PMSM For Wind Turbine Application	Prof. S.N. Shivani Prof. Mihir Vasavada


05	Nakum Pratishta Ladhabhai	Reactive Power Optimization in AC Power System with High Penetration of Renewable Energy Sources	Dr. Zenifar B.Parekh
06	Trivedi Tanay Maheshbhai	Relay Coordination for Protection of Distribution System	Prof. Vipul N. Modi Prof. Fedrik Macwan
07	Patel Kunjkumar Anilbhai	Simulation & Control of SFCL Device with DC Circuit Breaker For Fault Current Limiters in HVDC Grids	Prof. Mitul Patel
08	Saswat Mishra	Transient Stability Improvement of Power System Using UPFC in MATLAB Simulink	Prof. L.K. Katariya Dr. V.K. Prajapati

• Applied Mechanics Department

01	Hardik Vyas	Feasibility of utilizing Marble dust in combination with Cement Kiln Dust (CKD) as partial replacement to Cement in Mortar	Dr.R.K.Gajjar & Prof.Poonam I. Modi
02	Chintan Makwana	Analysis and Design of Collector Elements in Single and Twin Tower RCC building with Common podium considering Backstay effect	Prof. Poonam I. Modi



03	Mahmad Dodhiya	Study on properties of concrete by using marble waste material as a partial replacement of fine aggregate and coarse aggregate	Prof. A. G. Hansora
04	Shah Sumey	Experimental assessment on performance of geo-grid mesh in seismic loading condition on adobe structures	Prof. A. G. Hansora & Prof. C. D. Patel
05	Mayurkumar Gain	Parametric study of marble waste and polypropylene fibre added mortar	Prof Deepak Tarachandani
06	Ajay Kumar	Parametric Study of Glass Fibre Reinforced Polymer (GFRP) Strengthened Concrete Column Under Eccentric Compression Load	Prof Deepak Tarachandani
07	Nayan Valiya	Behaviour Of Hollow Core Steel-Concrete-Steel Circular Composite Column Subjected To Eccentric Loading	Prof. G.M.Tank & Prof. K.A.Parmar
08	Hemang Rajyaguru	Parametric Study of RCC and Precast Structures using different lateral load resisting system under seismic and wind effect	Prof. K.A.Parmar
09	Patel Darshan	"Stabilization of Black cotton soil by using PKSA"	Prof. M.G.Vanza

10	Jadav Nirav B.	"Analysis of the variation on earth pressure by addition of construction demolition waste (C & D waste) in black cotton soil"	Prof. M.G.Vanza
11	Vishwani Bhavin D	"Study on tensile strength of UHPC with varying size and dosages of steel micro-fibers"	Prof. M.G.Vanza
12	Shivani Mistry	Study the potential of microbiologically engineered soil for modifying soil thermal conductivity for energy geostructures	Prof. Shalini R. Singh & Dr. M.V.Shah
13	Nikitha Sam	Comparative study of seismic fragility analysis of Buried Pipelines crossing over Fault Zones using Numerical Modelling	Prof. Shalini R. Singh
14	Jaydeep Prajapati	Influence of Fly Ash based Geopolymer and Microfine Cement Grout on Stability of Dune sand	Prof. A. J. Shah
15	Bharat Shinghod	EXPERIMENTAL STUDY ON DURABILITY PROPERTIES OF AMBIENT CURED GEOPOLYMER CONCRETE USING INDUSTRIAL BYPRODUCT FLY ASH, GGBFS AND LIME	Prof. B. R. Patel
16	Keval Sanghani	ICT- based real time Strength Monitoring System for Silicafume Concrete	 Prof. B. R. Patel

17	Vishal Handa	PARAMETRIC STUDY OF BUILDING HAVING CONVENTIONAL RCC STRUCTURAL SYSTEM WITH POST TENSIONED STRUCTURAL SYSTEM UNDER SEISMIC LOAD	Prof. Payal H. Andharia
18	PARTH JITENDRAKUMAR CHAVDA	SEISMIC ANALYSIS OF HYBRID STRUCTURAL CONTROL SYSTEM IN RC BUILDING	Prof. Deepa H. Raval
19	Swaty Arun	Seismic Analysis of Elevated Water Tank With Metallic Plate Damper	Prof. Deepa H. Raval
20	Simranjeet Singh dhanjal	Study on Ballast Fouling and Characterization of Railway Formation Layer using Spectral Analysis of Surface Waves (SASW) For High speed railways for Gujarat (Field Study)	Prof. Priti J. Mehta
21	Darshil Satnami	Comparative Analysis of G +10 Precast Residential Building Located at Ahmedabad with and without Shear wall using ETABS	Prof. Priti J. Mehta
22	Pratik Kotadiya	Parametric Study On Impact Of Basement on Dynamic Behaviour of Tall Structure	Prof. Priti J. Mehta

23	Dhruval Panchal	Use of Cold formed steel as reinforcement for experimental studies on Seismic behaviour of vernacular structures	Prof. Chintan D. Patel
24	Arpit Panchal	Experimental study on Seismic behaviour of Adobe masonry using Hemp Fibre Ropes	Prof. Chintan D. Patel
25	Sumey Shah	Experimental Assessment on performance of geo-grid mesh in Seismic Loading condition on Adobe Structures	Prof. Ashwin G. Hansora & Prof. Chintan D. Patel

- IC Department

01	Karan Jagdish Chanchlani	Design and Develop Machine Learning Approach for Predictive Maintenance in Industry 4.0.	DR. D. H. MAKWANA
02	Patel Dipanshu Rajeshkumar	Embedded System for fire monitoring system and wireless communication.	DR. A. K. SHAH
03	Patel Ushaben bhupendrabhai	Alzheimer's disorders diagnosis system design using machine learning for EEG signal.	PROF. V. V. PATEL

04	RANA HARSHILSINH	Dynamic and intelligent transportation system for vehicle perception based on machine learning approaches	DR. D. H. MAKWANA
05	PATEL BHUMI PIYUSHBHAI	Chronic Kidney Disease Prediction with Comparative Study of different Machine learning methods	DR. A. K. SHAH
06	Patel Dhruvkumar Sanjaybhai	Automatic hydroponics farming system with image processing based smart nutrients system.	PROF. H. K. SHASTRI
07	Shiksha Sajwan	Control system design of an inertially stabilized platform for unmanned aerial vehicle	DR. M. T. THAKKAR
08	Bhoomi R Mandaliya	SCADA system upgrade for large volume Plasma Device	DR. T. V. SHAH
09	Patel Heliben Gautambhai	Stock Prediction using Sentiment Analysis with Deep Learning Techniques	DR. T. V. SHAH
10	MuhErdin	Automated Detection of Eye Disease Using Image Processing	PROF. L. S. PATEL

- Rubber Department**

01	Sukanya Rathod	Novel applications of Lignin: In Thermoplastic Polyolefins Elastomers	Prof.R.N.Desai Prof.S.J.Padhiyar
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OUR TEAM



Akshar Chauhan
Design Team Head
5th sem



Jabarson Christian
Content Team Head
5th sem



Nishit Modi
Design Team
5th sem



Divy Kumar Patel
Content Team
5th sem



Jyot Shyara
Design Team
5th sem

OUR TEAM

KRISHA

Krisha Kothadiya
Content Team
5th sem

