

LDCE

NEWS LETTER

Quarterly Magazine

April - June 2019



L. D. COLLEGE OF ENGINEERING AHMEDABAD-15

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L.D. College of Engineering, Ahmedabad-15.

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Patron

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Prof. K. B. Bhoyaniya

1. FROM THE DESK OF THE PRINCIPAL

Principal, Dr. G. P. Vadodaria

Dear faculty and student friends,



Our college organized **Kaizen 2019** on 11th and 12th April 2019 to showcase the project of final year students of UG and PG. Consequently for the fifth year **Kaizen** has been a great success, so much so that GTU wishes to implement the same in all affiliated institutes. It is indeed a matter of pride that LDCE has set such a benchmark. Talking of benchmarks, I would like to congratulate all the students who are going to represent the institute and the country in Robocon at Mongolia. The students who have won the Hackathon 2019 at PDPU deserve an equal amount of appreciation.

We are also doing great as far as SSIP is concerned. I am glad to see that we have achievers not just in students but teachers as well. Increase in the number of academic events in the institute is a sign that we are continuously striving to improve the academic standards.

The institute celebrated International Yoga Day as health, mental and physical, is equally important.

I am sure with hard work of the students and dedication of the faculty members we will achieve new heights.

Dr. G. P. Vadodaria

30th June 2019

2. PAPERS PRESENTED/PUBLISHED

Applied Mechanics Department



- Prof. A.R. Gandhi, Dr. M. V. Shah, Parth Shah published a research paper entitled “Strengthening Low Plastic Soils Using MicroFine Cement Through Deep Mixing Methodology” in Springer Book Series “Geotechnics for Transportation Infrastructure Recent Developments”, Upcoming Technologies and New Concepts, Volume 2, ISBN 978-981-13-6713-7, ISBN 978-981-13-6712-0, pp.571-585.
 - Prof. M.G.Vanza, Sanjay B. Rajpara published a research paper entitled “Control of heave using micropile with geotextile layer in expansive soil” in Journal of Emerging Technologies and Innovative Research, April 2019, Volume 6, Issue 4, ISSN-2349-5162.
 - Prof. M.G.Vanza, Shrimali Biren D. published a research paper entitled “Performance of pile group embedded in clayey soil under vertical and lateral loading” in Journal of Emerging Technologies and Innovative Research, April 2019, Volume 6, Issue 4, ISSN-2349-5162.
 - Ashwin G. Hansora and Kushal S. Patel, “Story drift Analysis of Diagrid structural system with varying Angle for High rise buildings as per Indian Standards”, Journal of Emerging Technologies and Innovative Research, Volume 6, Issue 4, April 2019, pp. 630-633, ISSN-2349-5162
 - Prof. Poonam I. Modi, Dr. R. K. Gajjar & Megh Modi published a research paper entitled “Review Paper on Application of Stone Cutting Waste in Construction Industry” in Journal of Emerging Technologies and Innovative Research, April 2019, Volume 6, Issue 4, ISSN-2349-5162.
 - Prof. D.H. Raval and RizwanBhata published paper on ‘comparative study of Elevated Water Tank with Diagrid Staging Support System’ in the International Journal of Technical innovation in Modern Engineering and Science, May 2019 Volume 5, issue 5, , ISSN-2455-2585.
 - Prof. B.J.Panchal, & Prof. K.A.Parmar & Sujith Velloor published a research paper entitled “Stiffening Of Soft Storey In An R.C Frame Building: A Critical Review” in Journal of Emerging Technologies and Innovative Research, April 2019, Volume 6, Issue 4, ISSN-2349-5162.
 - Prof. K.A.Parmar & Bhaumik Barot published a research paper entitled “Geo-Polymer Concrete Using Rice Husk Ash By Curing At Ambient Temperature” in Journal of Emerging Technologies and Innovative Research, April 2019, Volume 6, Issue 4, ISSN-2349-5162.
 - Prof. A. J. Shah & Nishi Patel published a research paper entitled “Evaluating the influence of chemical additives on swelling characteristics of expansive soil” Journal of Emerging Technologies and innovative research, Vol.6, Issue-4, 321-326 ISSN:2349-5162.
 - Prof. A. J. Shah & Abhishek Tripathi published a research paper entitled “Assessment of use of municipal solid waste as a backfill material reinforced earth wall under dynamic loading” Journal of Emerging Technologies and Innovative Research, Vol.6, Issue-4, 321-326 ISSN:2349-5162; Pg. No 285-290.
 - Prof. P. J. Mehta & Disha Patel published a research paper entitled “Bearing Capacity Of Circular Footing resting on Geogrid Reinforced Granular Fill Overlay on soft soil” Journal of Emerging Technologies and Innovative Research, Vol.6, Issue-4, 302-307 ISSN:2349-5162; Pg. No 302-307.
 - Prof. B.R.Patel & Vimal Thakrani published a research paper entitled “Study on Premixed Geopolymer Concrete as a repair material” in Journal of Emerging Technologies and Innovative Research, Vol.6, Issue-5, ISSN: 2349-5162.
 - Prof.(Dr.) S.P Dave, Prof.S.R. Singh & Adil Mansuri published a research paper entitled” Study on effect of microbial induced calcite precipitates on strength of soil” in the Journal of emerging technologies and innovative research, April 2019, Vol.6, Issue-4, ISSN:2349-5162
 - Sanjay Makwana & Prof.Payal H. Andharia published a research paper entitled “Effect Of Corner Radius On Shear Strength Of Cfrp Wrapped Rc Beam: An Experimental approach” in Journal of emerging technologies and innovative research, April 2019, Vol.6, Issue-4, ISSN: 2349-51
- Bio Medical Department**
- Prof. Yogita Parikh published paper titled ‘Real time Indian sign language system using Artificial Intelligence’ in Journal of Emerging Technologies and Innovative Research, Volume 6 Issue 4, April-2019
 - Prof. Utakarsh V. Pancholi presented and published research paper on ‘Low Density Culture of Mammalian Primary Neurons Compartmentalized Microfluidic Devices’ in the volume Biomedical Microdevices in Springer Journal, July 2019 (available online from Sept. 2019)
- Civil Engineering Department**
- Prof. Rena N. Shukla, Himanshi Y. Gadani, Pradip J. Gundaliya, G. P. Vadodaria have published a paper entitled as “Mode Choice Analysis of Students and Employees of an Engineering College “, in Journal of Emerging Technologies and Innovative Research (ISSN



:2349-5162) UGC Approved & 5.57 Impact Factor
, Volume 6 Issue 4, April-2019

- Prof. R. N. Shukla, Aniket D. Bhola, P. J. Gundaliya, L. B. Zala have published a paper entitled as “Mode Choice Analysis of Trips of Urban Residents using Multinomial Logit Model” in Journal of Emerging Technologies and Innovative Research (ISSN :2349-5162) UGC Approved & 5.57 Impact Factor ,Volume 6 Issue 5, May-2019
- Prof. R. N. Shukla, Krunalkumar A. Bhut, P. J. Gundaliya, H. R. Varia have published a paper entitled as “Trip Production Model Development by Multiple Classification Analysis” in Journal of Emerging Technologies and Innovative Research (ISSN :2349-5162) UGC Approved & 5.57 Impact Factor ,Volume 6 Issue 5, May-2019
- Prof. R. N. Shukla, Yash Bhavsar have published a paper entitled as “Accessibility Analysis of BRTS Public Transport Stops along Route Zundal Circle to L.D. Engineering College through West Zone of Ahd” in Journal of Emerging Technologies and Innovative Research (ISSN :2349-5162) UGC Approved & 5.57 Impact Factor, Vol 6 Issue 5, May-2019.

Chemical Engineering Department

- Dr. Sachin Parikh and Samidha Banka published a review paper on “Nonedible oil biodiesels: The cutting edge future of renewable energy in India” in Asia Pacific Journal of Chemical Engg, Wiley Publication.
- Dr. Sachin Parikh received financial support of Rs 50,000/- from GUJCOST for the program on “Modern Trends in Characterization Techniques with Hands on Experience” on 10th June, 2019.

Computer Engineering Department

- Prof. Tushar Raval along with Bharti Pooja published a paper on “Improving Web Page Access Prediction using Web Usage Mining and Web Content Mining” in Third International Conference on Electronics, Communication and Aerospace Technology, IEEE Xplore ISBN: 978-1-7281-0167-5 on 12-14 June 2019.
- Prof. A. V. Shah along with Bheda Mita published a paper on “Enhancing security By applying LSB steganography and hybrid cryptography for image transmission” in JETIR International Journal (ISSN: 2349-5162), Impact factor: 5.87, in April-2019.
- Prof. Hetal A. Joshiyara along with Langhnoja Himani published a paper on “Multi-Objective Based Integrated Task Scheduling In Cloud Computing” in Third International Conference on Electronics,

Communication and Aerospace Technology, 12-14, IEEE Xplore ISBN: 978-1-7281-0167-5, in June 2019.

- Prof. D. A. Parikh along with Pate TarunKumar published a paper on “Images Synthesis And Image Degradations Using Generative Adversarial Networks” JETIR (ISSN: 2349-5162) Impact Factor:5.87 Published in Volume 6 Issue 4, in April-2019.
- Prof. Hetal A. Joshiyara along with Tailor Bhavikaben published a paper on “Optimization of Big Data Processing in Private Cloud Environment”, Journal of Applied Science and Computations ,ISSN :1076-5131, Impact Factor: 5.8, Volume VI ,Issue V, in May -2019.
- Prof. Tushar Raval along with Thakor Urvashiben published a paper on “Improving Privacy Preserving for Location Diversity using KAnonymization Approach.”, Journal of emerging Technologies and innovative Research, (ISSN: 2349-5162) Impact Factor:5.87 Published in Volume 6 Issue 4, in April-2019.

Electrical Engineering Department

- Research paper by Dr M C Chudasama and Pallavi Joshi “Impedance Estimation Method Using Phasor Under Dynamic Condition”, published in the “Journal of Emerging Technologies and Innovative Research” Volume 6, issue 4, April 2019, ISSN : 2349-5162.
- Dr. K B Kela has Published a paper with the title “Reliability Optimization of Electrical Distribution Systems considering Expenditures on Maintenance and Customer Interruptions” in Indonesian Journal of Electrical Engineering and computer Science, a Scopus indexed journal.

Electronics and Communication Department

- Prof. H.B Tank, Dr. B.S. Sedani and Dr. N.A Kotak’s paper titled “Performance Evaluation of filtering techniques in filtered OFDM for 5G” was presented in the International conference on computer networks and innovative communication technologies on 23-24 May 2019 at Coimbatore, Tamil Nadu. The paper will be published in Springer notes.
- Miss Bhumika Israni and Prof. Usha Neelakantan had successfully presented paper on “Performance Analysis of Avalanche Photo-Diode Detector based Low Noise Fast Optical Receiver” in SSIP Annual Conference on Student Innovation, Startups and Ecosystem during 6th -7th June, 2019, at EDII, Gandhinagar.
- Shri Gadhavi Rajesh’s paper titled “Advance FBMC based MIMO design for 4G LTE System” under the guidance of Prof. Bhavin Sedani got published in JETIR in May 2019.
- Shri Gaurav Jha’s paper titled “IR Instrument Thermal Background Modeling and Radiometric Analysis”



under the guidance of Prof. Usha Neelakantan got published in IRJET in May 2019.

- Shri Siddharth Kurmi's paper titled "Advanced Approach for Long range data transmission using optical fiber communication" under the guidance of Prof. Usha Neelakantan got published in JETIR in May 2019.
- Miss Harshida Chaudhary's paper titled "Smart and Efficient Load Control system using Dynamic Tariff" under the guidance of Prof. Arun Nandurbarkar got published in IRJET in May 2019.
- Miss Greeshma Santosh's paper titled "Calibration and data quality Evaluation on SAR sensors" under the guidance of Prof. Arun Nandurbarkar got published in IRJET in June 2019.
- Miss Priyanka Chaudhary's paper titled "Design of Advance Encryption Standard using VHDL" under the guidance of Prof. Pinky Brahmhatt got published in JETIR in April-2019.

Mechanical Engineering Department

- Dr. P. R. Rathod and Nilesh Bhojani have published a research paper on "Experimental investigation of the effect of variation in weld joint design for Single-J groove on mechanical properties of the weldment in SS304" in Journal of Emerging Technologies and Innovative Research, May 2019.
- Dr. P. R. Rathod and Shravan Prajapati have published a research paper on "Welding of two difficult to weld metals namely 2205 duplex stainless steel and biler quality steel employing multipass GTAW process" in Journal of Emerging Technologies and Innovative Research, Jun 2019.
- Prajapati Sanjay Kupaji, Dr. K. G. Dave, Vysakh Vasudevan and R.M. Shah have published a research paper on "Experimental Characterization of Material Properties of 3D Printed ABS" in Journal of Emerging Technologies and Innovative Research, May 2019.

Rubber Technology

- Prof. Rupande Desai, Prof. B.D.Patel, Prof.Gnanu Bhatt and Mrs. Divya Jyoti filed patent titled "Antimicrobial silicone rubber" during May, 2019.
- Prof. Rupande Desai & Prof. B.D.Patel filed patent titled "Sunflower Leaf Fiber - Reinforced Natural rubber Biocomposites" during May, 2019.
- A paper was published on "Manifestation of Grafted Polymers in enhancing Blend compatibility of polymers" jointly written by Mr. Joel Lalucheria, Prof. R.N.Desai and Prof.Gnanu Bhatt in JETIR journal, volume 6, issue 4 during April, 2019.

Textile Technology Department

- Prof. Ashwin Thakkar and Prof. D.V.Bihola presented a paper on "Enhancement of Quality of Indian Cottons through Optimization of Roller Gin Machine Parameters" during May 2019 in International Journal of Technical Innovation in Modern Engineering & Science.
- Prof. Ashwin Thakkar and Prof. H.J. Jaiswal presented a paper on "Carbon Fibre Reinforced Composite Isogrid Structure : Properties and Application" during April, 2019 in National Conference TEXCON-2019 organized at Shri Vaishnav Institute of Textile Technology.

3. DEPARTMENTAL ACTIVITIES

Applied Mechanics Department

- A lecture of MicroLink Transmission Tower was arranged for M.E. Sem II (Structural Engg) on 9.4.19. The lecture was delivered by Er. Vimal Kapadiya.
- Dr. R. C. Sonpal Memorial lecture was arranged on 7th April'19, under the aegis of IGS - Ahmedabad Chapter. Dignitaries such as Dr. Amit Prashant (Chairman of IGS Ahmedabad Chapter), Mr. Parag Dave (Director of MK Soil laboratory), Dr. S.P.Dave (Honorary Secretary,, IGS A'bad Chapter & Principal, GEC, Gandhingar) had graced the occasion. The key note address was delivered by Mr. A.M Prakash (Head Quality with Larsen & Toubro Ltd).The Motivational speaker of the memorial lecture was Dr.S.R.Gandhi, who is currently the Director at SVNIT, Surat. Sir had delivered an insightful lecture on "Case Studies of Foundation Failure". The memorial lecture was attended by all the students of B.E & M.E Civil, faculty members from other engineering institutes.
- Brainstorming session was arranged on 29.6.19 for the faculty and students wherein different Industrial Stalwarts were invited to have an interactive session with the students. The purpose of the session was to make the students and faculty aware of all the latest topics worth pursuing for M.E dissertation.
- The experts from the Geotechnical engineering who graced the session included: Shri Prakashbhai & Darshan Chhatbar (Sr. Manager & Quality Er) Annandjiwala Consultants), Prof. R.M. Patel & Parth Shah (Sr. Consultant & Manager, M.K. Soil Lab), Shri Mahendra Bhavsar (Sr. General Manager, Sai Systra Ltd), Shri Arun Dave (CEO, Geotech Soil Testing Lab).
- The experts from the Structural Engineering field included: Shri C.H.Shah (Water tank design expert), Shri Vijayan Pandya (Ultratech), Shri Bimal Acharaya (Ultratech), Shri Rakesh Shah, Shri Mehul Shah, Shri Vatsal Shukla (Anviksha Consultants), Shri Devang



Patel (SID Consultants), Shri Mehboob Zindani (Ducon Consultants)& Shri Vijay Shah.



DSO, MSO, Multi-meter in collaboration with Tecktronix for the departmental faculties on 25th June-2019.

- 80 students from the department so far have been placed in different MNCs such as Accenture, TCS, HSBC, e-infochip, Zeus, Hitachi-HiRel etc.

Electrical Engineering Department

- The department has arranged Tree plantation drive on 17.06.2019. All the staff members had put their effort for tree plantation in different areas of the department. Dr. C D Upadhyay and Prof. Hemant Raval have played key role in tree plantation.

Mechanical Engineering Department

- An industrial visit was organized at M/s Havmor Ice Cream Limited, Manufacturing plant at Naroda, Ahmedabad on 6th April 2019 by LDCE-ISHRAE chapter. This industrial visit was coordinated by Prof. Hardik Shukla with support from Dr N M Bhatt. More than 75 students from semester - 6 (Mechanical) have attend this industrial visit in 2 Batches.



- ISHRAE - Ahmedabad Chapter had arranged revival of LDCE Student chapter for the society year 2019-20 lead by Mr. Urvish Shah (Immediate Past President of ISHRAE Ahmedabad chapter). The program was arranged at Bhaskar Rai Pandya community hall, Sandesh Press Road, Bodakdev, Ahmedabad on 12th April, 2019 from 6.00 pm to 7.00 pm. This program was possible due to the efforts of Prof. Hardik Shukla and Dr N M Bhatt. More than 15 students of LDCE have attended the event.
- A one day seminar was organized on "Plasma based Diffusion Heat Treatment" on 26th June, 2019. This seminar was organized under the auspices of ASM, Gujarat Chapter, LDCE, Ahmedabad and was sponsored by Therelek Engineers Pvt Ltd., Bangalore. A total of 40 participants have participated in the same which included 3 faculty members from LDCE and 37 participants from industries.

Information Technology Department

- Department, collaborating with Design Tech, had organized a two days workshop on MATLAB for pre-final year students on 22nd May, 2019. 35 MATLAB

Automobile Engineering Department

- A national level event, Eco Green Vehicle challenge was jointly organized by Automobile and Mechanical Department at L.D.College of Engineering on 4-6 April 2019. 14 teams including more than 200 student participants from various Institutes all over India had participated in event. Total prize money of more than 1.5 lakhs and trophy in various segment were awarded to winning teams.



Bio Medical Department

- Department organized expert Lecture on Entrepreneurship : Turning Ideas Into Businesses for Biomedical Engineers by Mr. Anand Parikh (IIT Chennai) & team from Seera Medical on 30th April 2019.
- Department has done primary health check up of students under the SSIP Boot Camp on 14/06/2019.

Electronics and Communication Department

- Department had organized the demonstration of latest

enthusiasts had participated in workshop and took insights of MATLAB.

Plastic Technology

- Industrial visit was arranged for the final year students on 24-4-19 at Milacron India Pvt Ltd.
- Department arranged project display for the final year students under KAIZEN 2K19.
- Various projects based on “Recycling of Plastics” Theme were displayed by the students.
- Mr. Atul Kanuga and Mr. Harshit Shah were the judges from the industries who selected the best three projects.



- Industrial visit for the final year students was arranged on 03-05-19 at Prasad Industries Vatva.
- Various industries like AMUL, NETAFIM, CREDENCE, TOSHIBA, HEXAPLAST, MIKU TRADERS etc. approached for placement in the department and many final year students got placed in the same.



Rubber Technology

- An expert Lecture series organized for M.E. Sem II Rubber Technology Students on “Rubber product part analysis by Simulation work” by Prof. N M Patel during May, 2019.
- An expert Lecture series organized for B.E. Sem IV Rubber Technology Students on “Importance and classification of Reinforcing fillers in Rubber Compounding” by Mr. Atul Shah, MD of Pioneer Rubber Industry during April, 2019.
- An expert Lecture series organized for B.E. Sem VIII Rubber Technology Students on “Innovation and startups in Rubber products” by Mr. Ronak Panchal, MD of Pravin Rubbers & Engg. Works during April, 2019.

- An Industrial visit of M/s. Pravin Rubber and Engg. Works, Bapunagar was arranged for the students of B.E.Sem-VIII (Rubber Technology) on 6th April, 2019.
- An Industrial visit of M/s. Pioneer Rubber Industry, Bapunagar was arranged for the students of B.E.Sem-VI (Rubber Technology) on 6th April, 2019.
- An Industrial visit of M/s. Ami Polymer Pvt. Ltd. Silvasa was arranged for the students of M.E.Sem-IV (Rubber Technology) on 6th April, 2019.
- An Industrial visit of M/s. Vaibhav Industries, Valva was arranged for the students of M.E.Sem-II (Rubber Technology) on 1st May, 2019.

4. FACULTY ACTIVITIES

Automobile Engineering Department

- Prof. R.J.Jani, Prof. M.A.Shaikh, Prof. S.N.Patel and Prof. J.P.Vasani coordinated EGVC Event organized jointly by Automobile and Mechanical Department on 4-6 April 2019.



- Prof. J.P.Vasani participated with his team in final Round of HACKATHON 2019 organized at PDP, Gandhinagar on 6-7 April 2019.



- Prof. R.J.Choube coordinated SSIP Bootcamp organized at L.D.College of Engineering from 10-14th June 2019.



- Prof. J.P.Vasani Delivered expert lecture on “Car Making” in SSIP Bootcamp organized at L.D.College of Engineering from 10-14th June 2019.
- Dr. P.D.Patel has filed patent on “System for Intelligent and Adaptive control for Micro Hydro Plant” with application No. 201911024489 in Intellectual Property India on 20/06/2019.

Bio Medical Department

- SSIP project ‘Solar Powered Sterilization and Distillation Unit’ under the guidance of Prof. Utkarsh V. Pancholi and students team has won the first prize in SSIP Carnival with cash prize 10,000 on 14/06/2019



Chemical Engineering

- Prof. Vandana Gojiya was appreciated by Aarambh Cell – LDCE for her contribution.

Civil Engineering Department

- An In-house Conference on "Modern Water Resources Management Initiatives for motivating First year masters students (WRM) towards proficient researches" was organised on 14th May 2019. Selected Mini project research seminars completed by M.E. (WRM) students have been published in proceedings with ISBN No. 978-1-5457-3005-8. Organiser of Conference: WRM Section, Civil Engineering Department, LDCE, Ahmedabad. Venue: Civil Engineering Department. Coordinator(s): Prof. Neelam Dalal, Prof. Utkarsh Nigam, Prof. P. V. Shah.

Computer Engineering Department

- Prof. Hetal A. Joshiyara received a Prashansa award as a Best faculty Mentor all over the Gujarat State, at SSIP Annual Conference on STUDENT STARTUPS AND ECOSYSTEM held on 6th-7th June 2019 at EDI, Bhat.



- The institute has organized Summer Bootcamp- 2019 for school students. Faculties Prof. Hetal A. Joshiyara and Prof. Maitrik Shah along with supporting staff Shri Ankit Soni and Shri H.N.Rathod delivered an expert talk on “Future Technologies of Computer” followed by “Get insight of Computer”. It was indeed an interactive and informative session for students.

Electrical Engineering Department

- Dr M C Chudasama had delivered expert lecture on "Modeling and applications of Thyristor Controlled Series Compensator" on 12-06-2019 at SVNIT Surat.
- Dr. C D Upadhyay had organised training program on “MATLAB” for UG and PG students under IEEE electrical student chapter.
- Dr. C. D. Upadhyay had delivered an expert talk on "Electric Vehicle and its impact on Power Grid" at Indus University and "Design of Hybrid Electric Vehicles at GEC, Bharuch on 09.04.2019
- Dr. C. D. Upadhyay & J. K. Chavada have trained 30 students for the Hybrid Electric Vehicles.
- Dr. U L Makwana has delivered an expert talk on “Teaching Learning Based Optimization in Electrical power System” in MATLAB training program on 8th April, 2019
- Dr. C. D. Upadhyay has delivered an expert talk on in MATLAB training program on 9th April, 2019
- Prof. Vihang Dholakiya has Completed MOOC Course on "Introduction to Electric Vehicles-1" of IIT-Delhi on 27.05.2019.
- Prof. K B Kela was awarded PhD degree in Electrical Engineering on the title 'Strategies for Reliability Enhancement of Electrical Distribution Systems' in January 2019 by GTU.
- Dr. U L Makwana has delivered an expert talk on “Restructuring of Electrical Power System” at V V P Engineering College, Rajkot on 19.06.2019.
- Prof. Mitul Patel has guided students of primary and secondary in boot camp held at Electrical Department on 12.06.2019.

Electronics and Communication Department

- Prof. Usha Neelakantan was felicitated by Dr. G.P Vadodariya (Principal L.D.C.E) in the farewell function held at Aryabhata hall on 29th June 2019.



- Dr. M.V Shah was the member of organizing committee of final round of Gujarat Industrial Hackathon held at PDPU Gandhinagar on 6th -7th April 2019.
- Dr. B.S Sedani was the member of organizing committee of final round of Gujarat Industrial Hackathon held at PDPU Gandhinagar on 6th -7th April 2019.
- Prof. P.J Brahmhatt, Prof. S.B Prajapati, Prof. A.J Kshatriya, Prof. A.B Upadhyay, and Prof. P.P Prajapati were invited as jury in final round of Gujarat Industrial Hackathon held at PDPU Gandhinagar on 6th -7th April 2019.



- Prof. P. J. Brahmhatt, Prof. P. J. Muliya, Prof P. P. Prajapati, Prof. A. J. Kshatriya, Prof. D. N. Patel, Prof. H. B .Tank, and Prof. N. A. Kotak had attended the SSIP Conference held on 6th June 2019 at EDI, Gandhinagar.
- Dr. N.A. Kotak delivered an expert lecture on “Electronic Dice”, in Innovathon Summer Boot camp 2019 held at L.D.C.E. Ahmedabad on 12th June 2019.
- Dr. N.A Kotak was felicitated as SSIP Department Coordinator in Innovathon Summer Boot camp 2019 on 12th June 2019 at L.D.C.E. Ahmedabad..

Instrumentation & Control Engineering

- Dr. Manish Thakker received Prashansa Awards in SSIP Annual Conference during 6-7th June 2019 for outstanding performance in the area of student’s innovation and startups.

Mechanical Engineering Department

- Doordarshan, the national public service broadcaster organises National Robocon event every year and the winning team gets an opportunity to represent India at the international competition. For the year 2019, team

Robocon LDCE participated in this event at IIT-Delhi on 16-06-2019. There were 26 teams shortlisted by IIT-Delhi considering various technical parameters for the event of 16-06-2016. Then there were league matches, Quarter final, Semi Final and Final match on that day. In finals LDCE met Nirma Institute of Technology and won the championship. Now LDCE will represent India in this competition at international level at Mongolia. Faculty coordinator Prof. Mitul Makwana and students from second, third and fourth year of mechanical engineering were part of the team.



- With the support from SSIP, Aarambh Cell – LDCE had organized Innovathon – Summer Bootcamp 2019 for 8th to 10th standard school students from 10th – 14th June, 2019. Dr. R. G. Kapadia delivered sessions 1 and 3 on day 1 on Group formation, Ice Breaking Activity, Design Thinking & Innovation through AV and Generation of Ideas and Idea Pitching on Car Design, respectively.
- Prof. D. U. Panchal, Prof. Jayendra Vasani and Dr. Mrunalkumar Chaudhari coordinated session 1 on day 2 on the topic of Car Model Making and Racing competition. The session was focused on fundamental of automobile engineering. The theme was given to build the vehicle for agricultural application. A hands-on practice session for preparing working model followed by car racing was there during the session. The learning outcomes of the session were team building, team work, design aspect, engineering problem solving, time management, market survey, ethics, and accuracy in design, front wheel/rear wheel design, communication skill and more.



- Dr. Mrunalkumar Chaudhari coordinated all of the sessions on day 4. The speakers included Dr. N. M. Bhatt, Dr. Mrunalkumar Chaudhari and Prof. Dhaval Patel. Dr. N. M. Bhatt delivered an introductory session on SOIC and the way students can take advantage of this policy. Prof. Dhaval Patel conducted a session on the theme “Designing the solutions to the problems of future”. This was followed by question and answer sessions and an introduction to advanced welding and automation facilities at Centre of Excellence – Welding by Dr. Mrunalkumar Chaudhari.

Plastic Technology

- Prof. Bharati Basantani accompanied the final year students for industrial visit to Milacron India Pvt Ltd.



- Prof. Nirav Solanki accompanied the final year students for industrial visit to Prasad Industries Pvt Ltd.



Rubber Technology

- Prof. R.N.Desai has arranged the pedagogy meetings with 1. Mr. Atul Shah, MD of Pioneer Rubber Industry for “Biodegradation of rubber composites and

Sustainable Environment” on 22nd June, 2019, 2. Mr. Darshan Shah, M.D of Rubber Concept Industry for “Novel manufacturing techniques for powdered rubber” on 30th April, 2019, 3. Mr. Prakash Patel, MD of Agile Rubber Products for “New Development in the sector of Rubber Blends” on 20th June, 2019, 4. Mr. Ronak Panchal, MD of Pravin Rubber & Engg. Works for “Development of dynamic properties in Conveyor belts” on 26th April, 2019, 5. Mr. Mehul Bagadiya, MD of Harsh Industries for “Startup and innovation in Thermoplastic rubber industries” on 25th April, 2019. Prof. A.D.Bhatt, Prof. B.D.Patel, Prof. S.J.Padhiyar, Prof. G.G.Bhatt, Prof. R.Y.Modan & Prof. P.N.Chavda attended the meeting.

- Prof. Priyanka Chavda actively participated as a team mentor in Grand finale of Gujarat Industrial Hackathon 2019 held at PDP, Gandhinagar during 6th-7th April, 2019.

Textile Technology Department

- Prof. Ashwin Thakkar was awarded for Academic Excellence during National Conference on “Global Textile, Changing Scenario in Current Times” by The Textile Association (India) organized on 9th April, 2019.
- Prof. Ashwin Thakkar was invited as a member of panel discussion on Apparels during the National Conference on “Global Textile, Changing Scenario in Current Times” by The Textile Association (India) organized on 9th April, 2019.

5. STUDENTS' ACTIVITIES

Applied Mechanics Department

- Dhruv Trivedi, Sugam Thakkar & Dashrath Mistri, the students of B.E.Civil VIIIth Sem (Batch 2016) bagged 2nd prize and were awarded cheque of Rs.7000/- for their SSIP project carried out under the mentorship of Prof. Poonam I. Modi.
- These students were felicitated in the event entitled “Innovathon Boot Camp” organized by I.C department on 14.6.2019. On the same day, Dr.Manish V. Shah (SSIP Co-ordinator of AMD) was also conferred trophy.

Automobile Engineering Department

- Department students, Kishan Gohel and team participated in Final round of Hackathon Organized at PDP, Gandhinagar on 6-7 April 2019.



- The Department & SAE INDIA-GUJARAT DIVISION-WS had organized awareness program on the Solar/Electric three wheeler, at L D college of Engineering, with support of the Sun pedal ride group on 10th June 2019.



Bio Medical Department

- Final Year student's Tennyson, Jignesh Mistry and Nayak Shivani qualified in GATE examination in 2019

Computer Engineering Department

- 5th Sem Students, Aditya Purohit, Jainam Shah, Malav Shah, Hardik Shah, Shrey Savsari, Chetan Khatik and Arbaz Shaikh from Computer Engineering Department under the mentorship of Prof Aakansha Saxena won First prize with Cheque of 50,000Rs in Gujarat Industrial Hackathon 2K19. They worked on Minimisation of Transportation cost of Raw milk and Dairy products for Dudhadhara Dairy Bharuch.



- At SSIP Annual Conference on STUDENT STARTUPS AND ECOSYSTEM held on 6th-7th June

2019 students have received awards for their outstanding performance in Startups and State Level Hackathon -2019. AddSee lead by Cheny Mittal received an award in Startup Category. Startup EXPOSIT lead by Roshan Rawal was selected in world's top 100 start ups and received award in Startup Category. Startup SUZI lead by Deepti Panchal was selected for demo pitch.

Electronics and Communication Department

- Rashmi Desai of 8th Semester has filed an application for the provisional patent on "The Trigger Assisted Preservation (TRAP) System".
- Aalap Doshi's (8th Semester) paper titled "A Comprehensive Review on Automation in Agriculture using Artificial Intelligence" got published in Elsevier Journal on 17th June 2019.
- Naishal Vora, Darshan Kansara, Kavisha Patel (4th semester) and Heet Rao (6th Semester) were the team members of the Team ROBOCON LDCE which was winner at National DD ROBOCON held at IIT Delhi on 16th June 2019. They will be representing team India in ABU-ROBOCON to be held at Mangolia in August 2019.
- Monika Makwana, Gohil Khooshbu, Bhadarka Vipul, Vadodariya Hemat, and Jay Tank of 8th semester participated in the final round of Gujarat Industrial Hackathon 2019 held at PDP, Gandhinagar on 6th and 7th April 2019 under the guidance of Prof. K.H. Gavit.



- Fenil Ladwani and Ali Hussain Vohra of 6th semester participated in the final round of Gujarat Industrial Hackathon 2019 held at PDP, Gandhinagar on 6th and 7th April 2019 under the guidance of Prof. S.K Rana.
- 11 students of 7th Semester have gone to Wasmer University Germany under GTU's International Exchange Program (IEP) for studying DSP (Digital Signal Processing) and WC (Wireless Communication).



- Jigarkumar Parmar, Samarth Kawade, Raj Rathod, Pranav Shukla, and Dhruvi Shah of 6th semester were the first runners up at EarthXhack, A Hackathon on 28th April, 2019. They won prize money of Rs. 25000.
- Ali Hussain Vohra of 6th Semester and Shesh Mali of 8th Semester were the team members of the GTU Robocon Team which stood 3rd at National DD Robocon.
- Ghoghari Shailesh and Prajapati Jignesh of 6th semester had successfully completed training on “Basic Telephone Technology”, at BSNL Ahmedabad from 27th May to 1st June-2019.
- Manthan Khatri of 6th Semester had participated in the “NSS National Camp” from 21st-28th June 2019. They carried out various social activities at the rural areas.
- Around 25 students of pre-final year have undergone internship at different organizations viz DD, BSNL, Vbtro pvt. Ltd. Essar Steel, Dosepac, Mobitel Pvt. Ltd. (Srilanka), GUSEC, and ICUBE technology, etc during the month of May-June 2019.

Electrical Engineering Department

- Tirth Mehta, Jeet Dhoriyani & Renison Macwan of Electrical students have organised MATLAB Workshop in collaboration with IEEE student branch under the guidance of Dr. C D Upadhyay during 4th April to 10th April 2019.
- Vignesh, Muskan and Shivani Pandey, Students of Electrical Engineering department with his team has participated in “ROBOCON” organized by IIT Delhi on 16.06.2019. The team has won 1st prize in ROBOCON event among all IITn’s and students of other Institutes. This team will also represent a Team India in ROBOCON competition held at Mongolia in the month of August.

Information Technology Department

- Chirag Umraniya, a final year student’s project “CLAIRVOYANT- An assistive device for blind, deaf and dumb”; is selected in SSIP and they got 38,000/- financial support under SSIP.
- Alap Patel, a recent passed out student’s project “World News”; is selected in SSIP and they got 1,34,500/- financial support under SSIP.
- Chauhan Vrutik, a 5th semester student’s project “Medi-swift”; is selected in SSIP and they got 10,000/- financial support under SSIP.
- Solanki Samarth, a 5th semester student’s project “Project Sahara”; is selected in SSIP and they got 10,000/- financial support under SSIP.
- Hotchandani Simran, a 5th semester student’s project “Ruke Kahan?” is selected in SSIP and they got 75,000/- financial support under SSIP.

Instrumentation & Control Engineering

- B. E. Semester VII & V Bhavik Patel, Chandan Lunia, Khushboo Kapoor, Jinay Shah, Vishal Parmar, Ajay Vegad, Annindya Sarkar, Maulik Patel have secured 1st Rank in National DD Robocon 2019 at IIT Delhi.

Rubber Technology

- Nipasha Desai, Tejas Patel, Nayan Jalondhra & Vishaldas Gondaliya actively participated in Grand finale of Gujarat Industrial Hackathon 2019 held at PDP, Gandhinagar during 6th-7th April, 2019.
- All Students of B.E. Sem 6 have successfully completed their Industrial Training for three weeks during May-June, 2019.

Textile Technology

- 40 students of 6th Semester were sent for industrial training at various textile mills like Arvind, Welspun, Chiripal, Neptune etc.

6. COLLEGE ACTIVITIES

KAIZEN 2K19

- KAIZEN “Continuous improvement” started by the institute since the year 2015 showcases all the projects of final year U.G. and P.G. which are judged by eminent experts from industries and R&D organizations. The best three from each department are awarded by cash prize. The Open House which exhibited the final year industry and user defined projects of B.E and M.E students on 11th and 12th April 2019 was judged by a jury of renowned industrialists and academicians so that they might be further taken up for patents and also to prototype in near future. Above all, top three projects from all the branches were funded in order to reach market. This was followed by farewell of the final year students. The esteemed experts had interesting interaction with students, gave them valuable suggestions, evaluated the projects and ranked them for Prizes. With the ever growing demands of industry and a new impetus on Start -ups this event, with a remarkable number of **571 projects** primed by **1800 students**, looks forward to open new vistas of opportunities and encouragement for the students. Student Startup and Innovation Policy (SSIP) Projects of students of various colleges across the state of Gujarat was also be exhibited during the event. This event was coordinated by Dr. M.C.Chudasma and his whole team.
- The second session was that of departmental group photo, Prize distribution, a Gala dinner followed by a Musical event by 2nd and 3rd year students of LDCE. The whole event proved to be a novel and inspiring initiative in the field of Technical Education and G.T.U. is seriously thinking of implementing it in all the affiliated Degree Institutions.



HACKATHON (GIH-2019)

- Students of BE Semester 7th (Electrical) has won first prize in “HACKATHON (GIH-2019) under the category of small industry at PDPU, Gandhinagar under the guidance of Prof. Mihir Vasavada (Electrical Engg. Department). This award was given by Shri Bupendrasinh Chudasama Sir, Hon. Minister of Education on 06.06.2019.



ROBOCON EVENT

- Robocon (short for Robotic Contest) is organised by Asia-Pacific Broadcasting Union(ABU), a collection of over 20 countries of Asia Pacific Region. NHK, Japan had already been organising such contests at national level and also became the host of the first ABU Robocon in 2002. Since then, every year one of the member broadcasters hosts this international event. Doordarshan, the national public service broadcaster organises National Robocon event every year and the winning team gets an opportunity to represent India at the international competition.
- For the year 2019, team Robocon - LDCE participated in this event at IIT-Delhi on 16-06-2019. There were 26 teams shortlisted by IIT-Delhi considering various technical parameters for the event of 16-06-2016. Then there were league matches, Quarter final, Semi Final and Final match on that day. In finals LDCE met Nirma Institute of Technology and won the championship. Now LDCE will represent India in this competition at international level at Mongolia.

BABA SAHEB AMBEDKAR ANNIVERSARY CELEBRATION

- L.D.College of Engineering celebrated Birth Anniversary of Bharat Ratna Dr. Babasaheb Bhimrao



Ambedkar on 14th April, 2019 at Library Building in presence of the staff members of the institute.

INTERNATIONAL YOGA DAY CELEBRATION

- 21st June is celebrated as International YOGA Day. Every year institute is celebration this day with lots of enthusiasm. This year also Institute has celebrated this day with faculty members, NSS Volunteers, NCC cadets & students of the institute under guidance of Yogaacharya Snehal Bhatia & Prof Saurabh Shah. Event was coordinated by Dr C S Sanghvi & Dr P R Rathod



NSS UNIT ACTIVITIES

Election Duty for VoSAP - 23rd April,2019

- During the LOKSABHA ELECTION 2019, Volunteers of NSS LDCE worked as Volunteer to help the Specially Aabled People of the society in association with Voice of Specially Aabled People (VoSAP) and contributed towards the better future of our country! These volunteers helped 1100 Specially Aabled People during the election.
- NSS LDCE has also celebrated '5th International YOGA Day to bring out the inner peace to justify the theme of "YOGA FOR PEACE" at Prahladnagar garden under the guidance of Yogaacharya Miss Tarlikaben Vakil in presence of Additional Director General (Gujarat Region) Dr Dhiraj Kakadiya , Navalish Parmar and Arvind Vegda. Services of NSS Volunteers were appreciated at State level function



Special Camp - 23rd June -29th June,2019

- 50 NSS volunteers completed special camp-2019 from 23rd June – 29th June successfully at Naaz village of Ahmedabad district. Dr G P Vadodaria, Principal, Shri Sureshdan Gadhavi, Folk Artist, Shri Dharendra Patel,

Sarpanch & Dr C S Sanghvi remained present in inauguration program. NSS volunteers had taken up many activities during the camp. Health Checkup, Happiness Survey, various Awareness Programs, tree plantation and many other programs were organized. The villagers along with the school students were benefited through these activities carried out during the entire camp. At the completion of the camp the sense of unity was almost tangible among the volunteers and it is going to help the entire unit in carrying out the activities after the camp as well. Ankit Chautala & Krishna Chaudhary worked as a student coordinator & Dr C S Sanghvi has worked as a Program Officer.



Tree Plantation - 5th June, 2019

- Volunteers of NSS LDCE has organized Tree plantation Drive on World Environment Day 5th June 2019 at LDCE in presence Dr G P Vadodaria, Principal of LDCE, Major Dr. C.S. Sanghvi, NSS Program Officer, Dr R B Khasiya & Shri Atul Shah, LAA. Around 200 trees were planted. Many students, NSS Volunteers & NCC Cadets have participated in the event. Parth Kanzariya & Naisargi Patel have coordinated the event.



LDCE

NEWS LETTER

Quarterly Magazine

April - June 2019



L. D. COLLEGE OF ENGINEERING AHMEDABAD-15

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ALFAZ - Kuch Lamhe Khud Ke Naam - An Open Mic event 26th June, 2019

- This open mic event has the aim to provide a platform to college students to showcase their hidden talent and to build their confidence. This event is organized on alternate Wednesday in the campus of LDCE. This time event was organized on 26th June 2019. Students have participated in the event.

7. Consultancy / Testing work

- **Chemical Engineering**

Chemical Engineering Department along with Environment Engineering Department is approved as Schedule I auditor for Environment Audit by GPCB. They allotted five companies for doing environment audit during 2019-20



8. WORKSHOPS/ SEMINARS/ STTP/ CONFERENCES ETC. PARTICIPATED BY FACULTIES

Sr. No.	Titles	Faculties	Department	Venue	Duration
01	Advances in Civil Engineering for Global Sustainability	Prof. Utkarsh P. Nigam Prof. S. S. Dixit	Civil Engineering	Dr. S.S. Gandhi GEC Surat	10 th -14 th June 2019
02	SSIP Annual International Conference on Student Innovation, Start-Ups and Ecosystem – 2019	Prof. Parthiv R. Patel Prof. Sanjay K. Parmar Prof. Hiren J. Jaiswal	Textile Technology	EDII, Ahmedabad	06th -07th June 2019
03	Mathematical Modelling and Software Simulation for Power systems and Electrical Machines (HOMSPM)	Prof. Vihang Dholakiya	Electrical Engineering	SVNIT Surat	10-20, June, 2019
04	SSIP Annual Conference on STUDENT STARTUPS AND ECOSYSTEM	Prof. Dr.S.M.Shah, Prof. Hetal Joshiyara, Prof.Amita V. Shah, Prof. B.A.Oza, Prof. Kaplesh M. Patel, Prof. V.B.Vaghela, Prof. Maitrik Shah, Prof. S.R. Jain, Prof. Twinkle Chauhan	Computer Department	EDII campus, Bhat	6th-7th June 2019
05	Machine Learning, Data Science and Deep Learning with Python	Prof. Bhavesh H. Parmar	Bio Medical Department	GEC, Gandhinagar,	10/06/2019 to 21/06/2019
06	SSIP Annual International Conference	Prof. B.D.Patel, Prof. G.G.Bhatt & Prof. P.N.Chavda	Rubber Department	Entrepreneurship Development Institute of India (EDII), Gandhinagar	6 th -7 th June, 2019

9. M.E. Dissertation

Sr. No.	Title of thesis	Name of student	Guide
IC department			
01	Implementation of data fusion algorithm on indoor environment monitoring system	Zeal Singh	Dr. M. T. Thakker
02	Optimal design and implementation of a digital controller on an embedded system for a frequent set- point & load changes	D Arjun Rao	Prof. V. P. Patel
03	Improving percentage regulation and accuracy of single switch topology dc to dc converter using analog and digital proportional controller	Harshil Derasari	Prof. U.V.Shah
04	Design and implementation of 32bit 5- stage pipeline RISC processor using Verilog HDL	Chodavadiya Parth	Prof. M. C. Patel
Textile Technology			
05	Developing a carbon fibre reinforced composite isogrid structure and evaluating some of the mechanical properties for high-tech application	Patel Ravi R.	Prof.Ashwin Thakkar
06	Optimization of ginning parameters to enhance some of the properties of medium staple cotton fibre	Kalathiya Diyaj H.	Prof.Ashwin Thakkar
07	A novel method of manufacturing FR mattress cover using circular knitting technology	Shah Priyam D.	Prof.Ashwin Thakkar
Environmental Engineering			
08	Development of System for Recycling of Urinal Wastewater using Electrolytic process	Patel Anjali Manubhai	Environmental department faculties
09	Hydrodynamic Cavitation As A Preliminary Treatment For CETP Influent	Chotaliya Chirag Vinodbhai	Environmental department faculties
10	Noise Modeling: A Case Study of Kalupur Railway Station, Ahmedabad.	Desai Aalay Nileshbhai	Environmental department faculties
11	Effective Decentralize And Management Of Municipal Solid Waste : A Case Study of Ahmedabad City	Deshmukh Krunal Vallabbhai	Environmental department faculties
12	Application of Electromagnetic Field as a Polishing treatment od Dairy effluent for Reuse	Dipika Parmar	Environmental department faculties
13	Redution of particulate matter concentration in traffic booth using different filter assembly	Jadav Ravi Ajitbhai	Environmental department faculties
14	Comparative study of ex-situ methods for nitrate removal from groundwater: A case study of Mehsana district	Kanani Niyati Arvindbbhai	Environmental department faculties
15	Reduction of Color from Secondary treated Textile Industries Effluents using Polymeric Adsorbent Resin	Parmar Krishnaben Girdharlal	Environmental department faculties
16	Pilot Scale Study Of Vermifiltration For Food	Patel Harsh	Environmental



	Processing Industry	Bahecharbhai	department faculties
17	Optimization of Removal Efficiency of PM Control Equipments For Existing Textile Boiler.	Patel Nirmalkumar Atulbhai	Environmental department faculties
18	Air Quality Assessment of vehicular Pollution using Operational Street Pollution Model(OSPM)	Patel Sonali Devalubhai	Environmental department faculties
19	Assessment of ambient air quality using sensor based mobile monitoring device.	Ramchandani Anjali Vasudev	Environmental department faculties
20	Performance Evaluation of Submerged Membraine Bioreactor Using physical Reciprocation for Fouling Prevention	Singh Rashmi Vinodbhai	Environmental department faculties
21	Assessment of Particulate Matter Emissions using AERMOD software: A case study of Ahmedabad metro rail project	Saini Kalpana Devishay	Environmental department faculties
22	Performance Evaluation of Electrolytic treatment for Hardness reduction and Scale prevention	Syed Sarah M Sharique	Environmental department faculties

Applied Mechanics Department

23	Characteristic Investigation and Application of Stone Cutting Waste in Construction Industry	Megh Modi	Dr. R.K.Gajjar & Prof. Poonam I. Modi
24	Investigating the Potential of Ceramic Furnace Lining Waste (CFLW) as a partial replacement of Cement	Karan Sheth J.	Prof. Poonam I. Modi
25	“Heave control technique using micropile and geotextile layer in Black cotton soil”	Rajpara Sanjay B.	Prof. M.G.Vanza
26	“Performance of pile group embedded in clayey soil under vertical and lateral loading”	Shrimali Biren D.	Prof. M.G.Vanza
27	Seismic Analysis of Elevated Water Tank With Diagrid Support System	Rizwan M Bhata	Prof. D. H. Raval
28	Story drift Analysis of Diagrid structural system with varying Angle for High rise buildings as per Indian Standards	Kushal S. Patel	Prof. A. G. Hansora
29	Experimental Investigation of Geo-polymer concrete using rise husk ash at ambient temperature	Bhaumik Barot	Prof. KaminiA.Parmar
30	Stiffening Of Soft Storey of Low Rise RC Frame Building Using Carbon Fiber Strands	SujithVelloor	Prof. B.J. Panchal & Prof. K.A. Parmar
31	Effect of corner radius on shear strength of cfrp wrapped rc beam: an experimental approach	Sanjay Makwana	Prof. P.H.Andharia
32	Assessment of Municipal Solid Waste as a Backfill Material in Re-Wall Under Dynamic Loading	Abhishek Tripathi	Prof. Alpa J. Shah
33	Influence of Chemical Admixture on Swelling and Shrinkage Characteristics of Expansive Soil	Nishi Patel	Prof. Alpa J. Shah
34	Effect Of Footing shape and Load Eccentricity on	Sanskriti Bhavsar	Prof. P. J. Mehta



	Settlement Behavior of Coir Mat Reinforced Silty Sand		
35	Bearing Capacity Of Circular Footing Resting On Geogrid Reinforced Multi Layered soil	Disha Patel	Prof. P. J. Mehta
36	Experimental study on electro-kinetic consolidation of marine soil	Shah Axit Jayeshkumar	Prof. A.R. Gandhi & Prof. (Dr). M.V.Shah
37	A model test to determine uplift capacity of cable stayed transmission tower resting on singular and group piles	Raval Purav Atulkumar	Prof. U.K.Patel & Prof. (Dr). M.V.Shah
38	Interrelationship between shear parameter and resistivity for different rock matrices using Artificial Neural Network	Sudani Prashant Ganpatbhai	Prof.(Dr.) Manish V. Shah
39	Evaluating engineering properties and structural changes of 18entonite clay due to CO2 absorption	Shah Karan Bhupendrabhai	Prof.(Dr.) Manish V. Shah
40	Study on Premixed Geopolymer Concrete as a repair material	Vimal Takrani	Prof. B.R.Patel
41	A Model Test to Determine Uplift Capacity of Cable Stayed Transmission Tower Resting on Singular and Group Piles.	PuravRaval	Prof. U.K.Patel & Prof. M.V.Shah
42	Model study on performance of narrow reinforced earth (RE) wall using arching theory	Charmyjoshi	Prof.(Dr) S.P. Dave Prof. S.R. Singh
43	Study on effect of microbial induced calcite precipitation (MICP) on strength of soil	Adil Mansuri	Prof.(Dr) S.P. Dave Prof. S.R. Singh
44	Seismic Fragility Analysis for Multi-storied Buildings in different Earthquake zones.	Pandya Milan Kiran	Prof. D.R.Tarachandani
45	Integral Bridge And Bridge On Bearings – Comparison & Behavior Investigation	Patel VedantLalitkumar	Prof. C.D.Patel
46	Parametric study of the effects of differential axial shortening on outrigger structural system	Kotadiya Kaushik Prakashbhai	Prof. P.G. Patel
47	Study The Impact Of Metro Induced Vibration On Structures	Dahisaria Suryanshu Kishorchandra	Prof. (Dr.) C.S.Sanghvi
Mechanical Department			
48	Topological optimization of automobile rotor disk brake	Matariya Vipul Manubhai	Prof. H.P. Patel
49	Performance and emission Analysis of Single Cylinder Four Stroke C.I.Engine using Waste Plastic Oil with additives	Mehta Harshal Atindra	Prof. G.N. Sutaria
50	Performance & Emission Analysis of a Diesel engine fueled by Ethanol-Diesel Blend with Additive	Patel Amitkumar Manubhai	Prof. Dr. V. R. Patel
51	Energy and Exergy Analysis of Compression Ignition engine using Jatropa Biodiesel Fuel	Patel Harsh Ishwarbhai	Prof. P. C. Sheth
52	Experimental Investigation and Design for Human and Electric Powered Parallel Hybrid Drive Line for Vehicle.	Pateliya Ghanshyam Premjibhai	Mr. S. N. Patel
53	Thermal comfort analysis of passenger compartment using Computational Fluid Dynamics	Shah Somil Ketankumar	Prof. H.P. Patel
54	Investigation of ignition characteristics of biodiesel	Thakor Ambalal	Prof. V.D. Sonara



	and nano particles blends on engine performance and emission in single cylinder 4 stroke C.I. engine.	Ramabhai	
55	Investigation of heat transfer in water jacket of heavy duty diesel engine using CFD	Thummar Sagarkumar Ramjibhai	Prof. D. J. Parmar
56	Experimental Investigation of welded joint Prepared using powder plasma arc welding process on 304 austenitic stainless steel	Divyesh B Visaveliya	Prof Dhaval K Patel
57	Experimental investigation of the effect of variation in weld joint design for Single-J groove and other parameters on mechanical and metallurgical properties of the weldment in Stainless steel.”	Bhojani Nilesh B	Dr P R Rathod
58	Experimental investigation to develop metal coated waveguide	Prajapati Sanjay K	Dr K G Dave
59	Welding of two difficult to weld metals namely 2205 duplex stainless steel and boiler quality steel employing multipass Gas Tungsten Arc Welding (GTAW) process	Shravan M Prajapati	Dr P R Rathod
60	Experimental Investigation on Friction Stir Welding of Dissimilar Material Copper to Nickel	Yagnik k Vachhani	Prof. S P shah
61	Investigating the transmission loss of sound through various materials for different parameters of sound.	Vyas Karan	Prof M M Makwana
Rubber Technology Department			
62	Modification of FKM with Ultra High Molecular Weight Polyethylene for Pharmaceutical	Joel Lalucherian	Prof. Rupande Desai, Prof.Gnanu Bhatt
63	Antimicrobial silicone rubber	Divya Jyoti	Prof. Rupande Desai, Prof.Bhakti Patel
64	Modification in thermal oxidative ageing of NBR	Pratiksha Awasthi	Prof. Rupande Desai, Prof.Sunil Padhiyar

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