

LDCE

NEWS LETTER

Quarterly Magazine

October - December, 2018



L. D. COLLEGE OF ENGINEERING AHMEDABAD-15

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

1.FROM THE DESK OF THE PRINCIPAL

Principal, Dr. G. P. Vadodaria



Dear students and faculty members,

Another remarkable year has come to an end with a lot of achievements to the credit of our institute. It is indeed overwhelming to see that the enthusiasm with which the year started has sustained throughout and left us all craving for more in the coming year.

The last three months of the year 2018 was a great phase for academic give and take. It is delighting to see that many of our professors, whether senior or junior, are invited as experts for various events like FDPs, workshops, conferences, academic boards and others. Such sharing can expand the horizons not only of the individual but of the whole community. Our institute also arranged such programs and many participants benefitted from them.

With the help of industrial visits the students got an exposure to what the future holds for them. Many other events like quizzes of national and international level were organised and it is good to see our students shining at various levels and in various activities.

We registered our support and participation in the unveiling of Statue of Unity on 31st October 2018 by taking pledge for the sake of unity of our nation. Not only that, by celebrating Joy of Giving week, we tried to do our bit for the society. Further we also arranged a seminar by VoSAP to support the specially-abled people.

At the end, I would like to add that we need to continue adding new benchmarks to our progress every year in order to reach the highest level where LDCE would be one of the finest institutes in the world. And I believe together we can do it.

Dr. G P Vadodaria ,31st December 2018

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Prof. B.G..Basantani
Prof. K. B. Bhoyaniya

2.PAPERS PRESENTED/PUBLISHED

Applied Mechanics Department

- Nimodiya P.N., Patel H.S. have published papers on 1. "Experimental Investigation of Effect of Sand Fines on Properties of Self Compacting Concrete" at International Journal of Emerging Technologies and Innovative Research, Sep 1, 5 (9), 2018 ,pp 980-985 and 2. "Effect of packing density on properties of self compacting concrete" at International Journal of Civil Engineering and Technology, 9(11), Nov 2018, pp. 2126-2131

Civil Engineering Department

- Prof.R.N.Shukla has presented and published papers entitled as 1. "Calibration of Gravity Model with Impedance Factors for Medium Town in India" :at 2nd International Conference on "Reaching the Unreached: A Challenge to Technological Development" and 2. "Evaluation of Effect of Bus Rapid Transit System on Urban Road using VISSIM" :at 2nd International Conference on "Reaching the Unreached: A Challenge to Technological Development" on 19-20 November 2018 at Aston Kuta Hotel & Residence, Bali, Indonesia. Organised by ISTE ,New Delhi (Gujarat & M.P.Section) November.2018, Pg.No.29-35. She was awarded for best paper presentation for the first paper.



- Prof.R.N.Shukla has published papers entitled as 1."Ahmedabad: The World Heritage Title and Challenges", 2. "Contribution Of Women In Civil Engineering", 3. "Need for women Entrepreneurs In India", 4. "Opportunities and Challenges as Women Entrepreneur" and 5. "Issues of Women Empowerment in India" in Journal of Engineering and Innovation Research: An International Open Access Journal ISSN UGC Approved & 5.57 Impact Factor, Volume 5 Issue 11,Nov-2018

Chemical Engineering Department

- Prof. Sachin Parikh along with Ranjan Sengupta and Dipesh Kamdar presented a paper on "Bubble size determination in two-dimensional fluidized bed" at

2nd International Conference on "Reaching the Unreached: A Challenge to Technological Development", 19-20 November at Bali, Indonesia.

- Prof. V. M. Parsana and Prof. S. P. Parikh published a research paper "Isobaric Vapour-Liquid Equilibrium Data Measurement for a Binary System of Green Solvent 2-Methyltetrahydrofuran and Acetic acid at 101.3 kPa" in prestigious Arabian Journal for Science and Engineering, Springer publication in Nov, 2018.
- A Paper was published by Prof. S. R. Shah on "Performance analysis and emission characteristics of Palm based biodiesel blends on single cylinder 4 stroke VCR engine" in International journal for research in Engineering application and management, Volume 04", on 7th October, 2018.
- Prof. Amar Vaghela along with Jyoti Nakum and Kevin Vadnagra presented a paper on "Comprehensive Study on effect of Common salts & Natural Eutectic Solvents on separation of Allyl alcohol-water System" at 71st Annual Session of Indian Institute of Chemical Engineers CHEMCON-2018 on 28-30th Dec, 2018 at Jalandhar.

Computer Engineering Department

- Prof. Hetal Joshiyara has published papers entitled 1. "Performance Analysis to Setup Multinode Hadoop Cluster On Ubuntu and Google Cloud" in Journal of Emerging Technologies and Innovative Research (ISSN : 2349-5162) Volume 5 Issue 10 , October-2018, 2. "Performance analysis of Hive query on local system and BigQuery on Google cloud system" in JOURNAL OF APPLIED SCIENCE AND COMPUTATIONS ISSN NO: 1076-5131 Volume 5 Issue 10, October-2018, 3. "Survey Of Various Pso Variants Used For Cloud Computing Task Scheduling " in Journal of Emerging Technologies and Innovative Research ,ISSN : 2349-5162, UGC Approved & 5.87 Impact Factor, Published in Volume 5 Issue 11 , November-2018 with Himani Langhnoja, 4. "Study Of Various Configuration Parameters Of Apache Hadoop" in Journal of Emerging Technologies and Innovative Research ,ISSN : 2349-5162, UGC Approved & 5.87 Impact Factor, Published in Volume 5 Issue 11 , November-2018 with Bhavika A Tailor.
- Prof. Amita Shah and Bheda Mitaben Jethabhai has published paper entitled "Review on various techniques for Secure Image Transmission" in Journal of Emerging Technologies and Innovative Research (JETIR), ISSN : 2349-5162, UGC Approved & 5.87 Impact Factor, Published in Volume 5 Issue 11, November-2018.



- Prof. Tushar Raval and Bharti Pooja has published paper entitled "Survey Of Web Page Access Prediction Techniques" in Journal of Emerging Technologies and Innovative Research, ISSN: 2349-5162, UGC Approved & 5.87 Impact Factor, Published in Volume 5 Issue 11, November-2018.
- Prof Dr. Vimal Vaghela and Komal Langalia has published paper entitled "Classification Techniques For Sentiment Mining: A Survey" in Journal Of Applied Science And Computations, December 2018.
- Prof Dr. Dhaval Parikh and Parul Vaghamsi has published paper entitled "Survey of Various Server Consolidation Scheme in Cloud Computing Environment" in Journal of Emerging Technologies and Innovative Research, UGC Approved & 5.87 Impact Factor, December-2018.

General Department

- Dr. D B Shah presented a research article at International conference of Association of Inventory Academicians and Practitioners on "Emerging Trends in Inventory, Supply Chain & Reliability Modeling" on December 21 -23, 2018 at New Delhi.
- Mrs. V A Adhwaryu presented a paper on "Tonic transport studies in Silver Borophosphate Glass system with Silver Iodid" at 63rd National Symposium organized by Guru Jhambheshwar University, Hisar to be published in AIP proceedings.

Electrical Engineering Department

- Dr. C. D. Upadhyay, Jeet Dhoriyani, Renison Macwan have presented Paper presented at IEEE conference on "A Simulation - Hardware based study of EV charging station using Solar Photovoltaic energy in Gujarat" at Charusat on 14,15 Dec, 2018.
- Dr. C. D. Upadhyay, Jadav Haresh have Presented paper on at National Conference on "Renewable Energy Technology & its Integration" on 20th December, 2018 sponsored by Society of Power Engineers. Vadodara

Electronics and Communication Department

- Dr. Sanjay Prajapati's paper titled "Area and Energy Efficient Magnetic Full Adder based on Differential Spin Hall MRAM" got published at 16th IEEE International New Circuits and Systems Conference.
- Prof. P.J Brahmbhatt's Paper titled "Performance Analysis of Speaker Recognition System in Different Speaking Style" got published in STM Journal of Artificial Intelligence Research and Advances in December-2018.
- Dr. M.V Shah and Prof. P.P Prajapati's Paper titled "Optimization of CMOS current mirror load DA using hybrid CS-PSO" got published in STM STM Journal of

Artificial Intelligence Research and Advances in December-2018.

Information Technology Department

- Dr. Mehul Parikh participated and presented a paper entitled "Comparative Analysis for moving Object Detection in Vibrant Background using SVM, LS_SVM and Random Forest Classifier" in "International Conference on Emerging Trends in Engineering, Science and Technology" held during December 14-15, 2018 at Faculty of Technology and Engineering, Charotar University of Science and Technology, Changa in association with IEEE Gujarat Section & Gujarat Council on Science & Technology.
- Prof. Pradip Patel presented a paper entitled "A Survey on State of the Art Methods for Indian Sign Language Recognition" during 32nd International Conference on Indo-Canadian Multidisciplinary Research: Trends and Prospects organized by Institute of Infrastructure, Technology, Research And Management, Ahmedabad on 28-29 December.

Mechanical Engineering Department

- Prof. S. S. Pathan has published a paper titled "Sound insertion loss of corrugated plates" at Western Pacific Commission for Acoustics, Nov 2018.
- Prof. A. G. Momin, Sachin Hingu has published article on "Finite element analysis of fibre reinforced composite material" at International Journal for Scientific Research and Development in Nov, 2018.
- Mr. Divyesh B Visaveliya and Prof. Dhaval Patel have published Paper on "Plasma Arc Welding- A review Paper on weld Quality" in Journal of Emerging Technologies and Innovative Research. December 2018, Volume 5, Issue 12, ISSN-2349-5162.
- Prof. Y. D. Vora and Mr Akshay P Shah had published a paper titled "Design And Modification Of Finned Tube Heat Exchanger" in journal of Emerging Technologies and Innovative Research – ISSN UGC approved & 5.87 Impact Factor in vol. 5 issue 5, 2018.

Rubber Technology

- A paper has been published on "Boundary Inspection Approach for Constrained Multi-Objective Optimization" written by Prof.R.N.Desai in International Journal for Research in Engineering Application & Management, Vol-04, Issue-07 during October-2018.

2. DEPARTMENTAL ACTIVITIES

Applied Mechanics Department

- Visit to ATIRA was arranged for UG and PG students (Geo-tech+ Structure) students along with Prof. Alpa J

Shah, Prof. M V Shah and Prof. U K Patel on 17.12.18 with an aim to demonstrate various experiments for Geosynthetics.

- The department of International Relations, GTU hosted delegation from Saxion University, Netherlands during 4th to 6th Dec'2018. The delegation in this context had made a visit to the Applied Mechanics Department on 4th Dec'18. The delegation visited all the major laboratories of the department, interacted with faculties and students.



Automobile Engineering Department

- Prof. D.J.Parmar has Co-coordinated DTE and ISTE Approved STTP titled "Modelling and Simulation using MATLAB" during 13/11/2018 to 17/11/2018 organized at L.D.College of Engineering, Ahmedabad

Chemical Engineering Department

- The department organized an ISTE approved one week FDP on "Heat Exchange Process Intensification" from 31st Dec, 2018 - 5th Jan, 2019. 38 faculties from all over Gujarat attended the FDP. Prof. S. P. Parikh, HOD was the Coordinator and Prof. C. G. Bhagchandani and Prof. S. R. Shah were the Co-Coordinator of the program. The event was sponsored by GTU, Ahmedabad.



- An awareness session on "Poultry slaughter waste management" was conducted by Ketan Panchal of

Center for Environment Education (CEE), Ahmedabad on 23rd October, 2018.

Computer Engineering Department

- Department has organized one day orientation training on "MATLAB & Simulink" on 11th Dec'2018 in association with DesignTech Systems Ltd. Prof. D.A. Parikh, Head of the Department was the Coordinator of the program. Approximately 34 participants were registered in this training. The speaker was Mr. Pratap Gawande and Mr. Pawankumar Fakatkar DesignTech Systems Ltd, Ahmedabad.



- Department hosted webinar on "Installation of MATLAB" on 29th December 2018 organized by MATLAB. Purpose of the webinar was to provide installation guide to government Engineering College under DTE.

Electronics and Communication Department

- Department had organized an expert lecture on "Entrepreneurial Journey- GLIDE technology" under SSIP at Bhaskaracharya hall on 6th October-2018. The lecture was conducted by Mr. Upendra Patel (Director-GLIDE technology).



- Department has received ISRO Modem donated by SAC ISRO, Ahmedabad. The Modem demo was conducted by the Engineers/Scientists Mr. Pinakin Thaker, Ms. Parul Ajmera, and Vipul Parekh (alumni of L.D). Mr. Pinakin Thaker also delivered an expert talk on "Satellite Modem" organized at the department on 30th November 2018.



- Department had organized expert talk on “RF and Microwave Education-Current and Future Trends” by Prof. Shibhan Koul (Professor-IIT Delhi) and Dr. Rajeev Jyoti, (Dy. Director, SAC, ISRO, Ahmedabad) for BE and ME students on 7th December, 2018 at Bhaskaracharya Hall by IEEE AP/MTT Chapter.



- Mr. Tanmay Vyas (Founder and Head VEDSHALA) was invited for the expert lecture on “Astronomy” organized by PRAKALPA Club at Bhaskaracharya Hall on 12th December 2018.

Electrical Engineering Department

- IEEE Student Branch has organized the STEP talk at Electrical Department at 06.10.2018 sponsor by IEEE Gujarat Section.



- Dr. V. K. SHAH, Vice President, ABB has delivered expert talk on Future needs of Electronics in Electrical Power System, under IEEE STEP talks sponsored by IEEE Gujarat Section in Electrical Engineering department on 6th October, 2018.
- Dr. Gopal Gujjar, IIT, Bombay, has delivered expert talk on Research Lab of Electrical Power System, under IEEE STEP talks on 6th October, 2018 in Electrical engineering department.
- Dr. Naran Pindoriya has delivered expert talk on research opportunities in IITs on 05.10.2018 for UG and PG Student

Mechanical Engineering Department

- Prof. (Dr.) S M Mehta, Prof. R O Paliwal and Prof. H A Shukla have coordinated STTP on “Advances on refrigeration and Air conditioning”, organized from 08th – 12h Oct, 2018. GUJCOST has financially supported and ISHRAE - Ahmedabad chapter has technically supported the STTP.



- Prof. (Dr.) U. A. Patel has coordinated STTP on “Modelling and simulation using MATLAB” during 13th – 17th Nov, 2018. Prof. H A Shukla, Prof. N H Pancholi and Prof. D J Parmar were co-coordinator for the event.
- Boiler experts from Gujarat state – Mr Patel and his team members had visited Centre of Excellence – Siemens on 13/10/2018 .Prof. Y. D. Vora had explained about CEO’s lab facilities and discussed about different training programs offered . Prof S M Mehta, HOD Mechanical and Prof. Y. D. Vora, COE coordinator has arranged and coordinated this visit.



- Dr. Frederick E. Schmidt, President, ASM International has delivered a seminar lecture on “Introduction to Failure Analysis: Fundamentals & Case studies” at COE Welding on 3rd October 2018.
- Mr Rajesh Raghavan –President, Rane- NSK Steering Systems Pvt. Ltd and his team members had visited Centre of Excellence – Siemens on 20/12/2018 and seen various facilities of COE Siemens center. Prof. Y. D. Vora had explained about utilities of various labs and different training programs offered to the industry by the center. Prof V P Patel, T & P incharge had arranged this visit and Prof. Y. D. Vora, COE coordinator has coordinated this visit.
- Mr Pravin Manorkar –Regional Manager (HE) west m/s ARK infosolutions Pvt Ltd and his team expert Aeronautical engg had visited Centre of Excellence – Siemens on 20/12/2018 and seen various facilities of COE Siemens center. Prof. Y. D. Vora had explained about utilities of various labs and different training programs offered to the industry by the center. They were happy to see such latest facilities in Gujarat state and shown their interest for conducting aerospace engg. course training at this center. Prof. Y. D. Vora, COE coordinator has arranged and coordinated this visit.



- STTP on “Professional Course for Engineers” was organized for delegates from various industries from 12th – 15th December, 2018. This program was coordinated by Mr. Ragesh Bateriwala.
- ISHRAE JOB JUNCTION ONLINE TEST was conducted in which 36 students have appeared. 30 students are selected for the interview in the same. Prof. (Dr.) S. M. Mehta and Prof. H. A. Shukla have managed the event with the help of Mr. Rajendra Mevada from ISHRAE Ahmedabad chapter.

Instrumentation & Control Engineering

- On 11th Sep, 2018, department had organized industrial visit at GEB, gandhinagar for 3rd year students.



- On 14th September, 2018 department had organized industrial visit at INDIAN FARMERS FERTILISER COOPERATIVE LIMITED (IFFCO) for 2nd year students.



Plastic Technology

- An expert talk was arranged on “Innovation And Startup In Plastic Industry” by Mr. Nishant Upadhyay (Project Manager, Prasad Group) on 08/10/2018.



- Industrial visit was arranged for the students of VIII semester on 28/12/2018 at Lincoln Polymers, Kadi and

Pentaflex films, Santej, under the IPI student's chapter.



- Department celebrated Khadi Day on 6th Dec 2018.



Rubber Technology

- An expert lecture organized for B.E. Sem VII students on "Novel Applications Of Rubber In Aeronautics" by Mr. C.G. Pandya, Ex- Aeronautical Air force Technical Engineer on 1st October, 2018 for the awareness of Student Startup and Innovation Policy program.
- An expert Lecture organized for B.E. Sem VIII students on "Financial Planning And Future Security"

by Mr. Vishwesh Shetty, Insurance & Financial Advisor on 26th December, 2018.

- An expert Lecture series organized for B.E. Sem VII students on "Advance Materials And Manufacturing Techniques In Rubber Industries" by Mr. Atul Shah, MD of Pioneer Rubber Industry during October, 2018.
- An expert lecture series was organized for B.E. Sem V students on "Peroxide Vulcanization Technique" by Mr. Ronak Panchal, MD of Panchal Rubber Industry, during month of October, 2018.
- An expert lecture series was organized for M.E. Sem I students on "Modeling And Simulation Of Cylinder And Beam By Using Elmer Software" by Prof. N M Patel during November, 2018.
- An Industrial visit of M/s. Pravin Rubber and Engg. Works, Bapunagar was arranged for the students of M.E.Sem-I on 1st December, 2018.
- An Industrial visit of M/s. Vaibhav Industries, GIDC Vatva was arranged for the students of M.E.Sem-I on 17th November, 2018.
- An Industrial visit of M/s. Pioneer Rubber Industry, Bapunagar was arranged for the students of B.E.Sem-V on 6th October, 2018.
- All students of M.E. Sem-III successfully completed Dissertation phase-I at GTU Chandkheda on 31st December, 2018.

Textile Technology

- Prof.M.R.Patel delivered an expert lecture on Production Planning and Scheduling for modern Textile mills on 26th October, 2018.

4. FACULTY ACTIVITIES

Applied Mechanics Department

- Dr C S Sanghvi has delivered an expert lecture on "Challenges in Earthquake Resistant Construction Practice & Importance of Experiments in Earthquake Engineering" in a STTP on "Advances in Earthquake Engineering" at IPS Academy, Indore on 26th October 2018
- Dr C S Sanghvi has delivered an expert lecture on "Structural Dynamics & Importance of Experiments in Earthquake Engineering" in a STTP on "Recent Advances in Structural & Geotechnical Engineering" at BVM Engineering College on 26th October 2018
- Dr C S Sanghvi has delivered following series of expert lectures in a STTP on "Structural & Non Structural Mitigation Strategies for SSA Engineers" at GIDM Gandhinagar on 30th November 2018



1. Risks associated with Structural Components of existing school building
 2. Identification of risks associated with existing school structure - Structural & Non-Structural elements
 3. Repair & Retrofitting Techniques of an existing school building
 4. Mitigation strategies for Identified Structural & Non-Structural Risks
- Dr C S Sanghvi & Prof P G Patel have participated as experts in Brain Storming Session to discuss the area of Thesis / Dissertation of M Tech students at Gujarat Forensic Science University, Gandhinagar on 26th November 2018.

Automobile Engineering Department

- Prof. R J Jani and Prof. M A Shaikh have attended board meeting held at ARAI-PUNE under SAE India Western section for planning of activities in upcoming year on 29/11/2018.

Chemical Engineering

- Prof. S. R. Shah successfully completed on-line course of NPTEL on Phase Equilibrium Thermodynamics on 15th October, 2018.

Civil Engineering Department

- Prof. (Dr.) P. J. Gundaliya performed as a peer reviewer for "International conference on "Science, Technology, Engineering & Mathematics" organized by Education dept, GoG to be held on 17/1/2019.
- Prof. (Dr.) P. J. Gundaliya performed as email chair for "International conference on "Science, Technology, Engineering & Mathematics" organized by Education dept GoG to be held on 17/1/2019.
- Prof. (Dr.) P. J. Gundaliya performed duty as Ex-Officio Member nominated by government for Gazette (Part IV- B) of Road and building Dept. published on 20th Oct, 2018 in association with GCPCE
- Prof. (Dr.) P. J. Gundaliya delivered an expert lecture at Road safety scenario and Audit at R & B Staff Training College ,Gandhinagar on 25th October 2018 during one day training on "Road Safety".

Computer Engineering Department

- Prof. Hetal Pandya has cleared NPTEL ONLINE Certification MOOC course on "Introduction to Internet of things" with 81% score (ELITE certification). This was 12 weeks course (July-Oct 2018) conducted by IIT Kharagpur. She was awarded with certificate on 15th Nov 2018.

Electronics and Communication Department

- Prof. Usha Neelakantan and Dr. A.B Nandurbarkar attended workshop on "Exam reforms, course

outcomes, formulation of question papers using CO" at GTU, on 11th October 2018.

- Dr. M.V Shah as GKS Joint Director played key role in the successful execution of Workshop on "Intellectual Property (IP) Strategy For Academia In Gujarat" at SSIP-Hub, Auditorium- KCG Campus, Ahmedabad on 20th December-2018.
- Prof. P.P Prajapati and Prof. S.L Bharvad performed the duty as liaison officers of key speakers at Workshop on "Intellectual Property (IP) Strategy for academia in Gujarat" at SSIP-Hub, Auditorium- KCG Campus, on 20th December-2018.
- Prof. S.K Rana was in the registration committee for the Workshop on "Intellectual Property (IP) Strategy for academia in Gujarat" at SSIP-Hub, Auditorium-KCG Campus, on 20th December-2018. .

General Department

- Mrs. V A Adhwaryu attended a Conference organized by Department of Atomic Energy- Solid state Physics Symposium-2018 from 18-22 December 2018 at Guru Jambheshwar University, Hisar; Haryana.
- Dr. Zalak Patel completed PhD on "Mathematical Models for Vertical Transmission of Diseases" under the guidance of Dr. Nita Shah from Gujarat University.
- Dr. Pragnesh Thakkar has completed PhD on "Analysis of Some Problems Related to Tribology" under the guidance of Dr. H C Patel from GTU.

Mechanical Engineering Department

- Prof. S. S. Pathan has given an expert talk on "Modelling And Simulation Of Dynamic Systems Using MATLAB" in a STTP organized by the Department on 17th November, 2018.
- Prof. (Dr.) U. A. Patel has delivered an expert talk on "Matric manipulation in MATLAB" and "Solution of Differential Equation using MATLAB" in a STTP organized by the Department on 15th-16th November, 2018.
- Prof. N. K. Pranami has given an expert talk on "Frequency Domain Analysis using MATLAB" and "Simulink using MATLAB" in a STTP organized by the Department on 16th November, 2018.
- Prof. A. G. Momin and student Tanay Gajjar has published patent on topic "Conceptual Design Of Split Rivet Press" with patent application number 201821045557 in patent office, Mumbai, India.
- Prof. (Dr.) M. D. Chaudhari delivered an expert talk on "Practical Aspects of Welding Metallurgy" in STTP on "Advances in Manufacturing Technology" at Aditya Silver Oak College of Engineering on 28th December 2018.

- Prof. (Dr.) M. D. Chaudhari delivered an expert talk on “Metallurgy for Engineers” in STTP on “Professional Course for Engineers” at Centre of Excellence – Welding at L. D. College of Engineering on 14th December 2018.
- Prof. R. O. Paliwal, Prof. D. J. Parmar, Prof. J. P. Dataniya and Prof. M. M. Makwana have verified more than 1500 applications of MYSY of various engineering colleges. Students have got financial benefits within time limit.
- Prof. (Dr.) N.M.Bhatt is appointed as an Academic council member and Member Board of studies (Mechanical and allied branches) for GTU.
- Prof. (Dr.) N.M.Bhatt appointed as a member of expert committee constituted for coordinating and monitoring students open innovation challenge.
- Prof. H.A.Shukla has delivered an expert talk on “Advances in laboratory experiments in RAC systems” in STTP on “Advances of Refrigeration and Air-conditioning” at LDCE on 10th October 2018.
- Prof. R.O.Paliwal has delivered an expert talk on “Advances in Heat exchanger design” in STTP on “Advances of Refrigeration and Air-conditioning” at LDCE on 11th October 2018.
- Prof. (Dr.) S.M.Mehta has delivered an expert talk on “Acoustic refrigeration” in STTP on “Advances of Refrigeration and Air-conditioning” at LDCE on 12th October 2018.
- Prof. H.A.Shukla has delivered an expert talk on “Duct Design in Air-conditioning Systems” in STTP on “Advances of HVAC Systems” at Silver Oak College of Engineering on 28th December 2018
- Prof.H.A.Shukla has worked as a co-chair for the Global students poster Design competition organized by ISHRAE AHMEDABAD CHAPTER at Mahatma Mandir during REFCOLD on 22nd to 24th November,2018 , in the same event Prof.(Dr.)S.M.Mehta and Prof.R.O.Paliwal has worked as evaluators for the posters.



- Prof. (Dr.) S. M. Mehta and Prof.H.A.Shukla has arranged an expert talk on “Cyber Security” by Ms. Meha Shukla (’89 batch LDCE) on “Cyber security “at Mechanical seminar hall on 24/12/2018. More than 70 students and faculty have attended the program. Prof.Niketa Patel has anchored the event.

Plastic Technology

- Prof Bharati Basantani was invited as GTU & CED representative at Sigma-Sheffield Technoplast Skill Centre on 6th December, 2018.
- Prof. Kintu Jain accompanied the students of sem 8 for Industrial visit at Lincoln Polymers, Kadi and Pentaflex films, Santej, On 28/12/2018.



Rubber Technology

- Prof. R.N.Desai has arranged the pedagogy meetings with 1. Mr. Atul Shah, MD of Pioneer Rubber Industry for “Rubber Recycled Products” on 8th October, 2018, 2. Mr. Ronak Patel, USA citizen and Alumina of Rubber Technology for “Reclaimed Rubber grafting” on 27th December, 2018, 3. Mr. Hitesh Joshi, Global Corporate Head of Apollo tyre, Netherland for “Recent development in Global Tyre industries” on 31st December, 2018, 4. Mr. Mehul Bagadiya, M.D. of Harsh Industries, for “Bio degradation of Polymer” on

17th November, 2018. Prof. A.D.Bhatt, Prof. B.D.Patel, Prof. S.J.Padhiyar, Prof. G.G.Bhatt, Prof. R.Y.Modan & Prof. P.N.Chavda attended the meetings.

Textile Technology

- Prof. D V Bihola, Prof.H J Jaiswal, Prof.S K Parmar have participated in conference on “Wool Science Technology and Design Education Program” – Train-the-Trainer workshop organized by The Woolmark Company, Australia at Sofitel Mumbai BKC on 10th - 11th Dec 2018.
- Prof. Ashwin Thakkar, Prof. Hiren Jaiswal has participated in seminar on “Rieter Com4 Yarn” at Hotel Courtyard on 7th Dec,2018.
- Prof. Ashwin Thakkar has participated in Workshop on “Intellectual Property Strategy for Academia in Gujarat” on 20th Dec, 2018

2018. Prof. T. S. Rajaraman is the mentor of the group. They have also filed a provisional patent for their work on “Wastewater Treatment Through Nanophotocatalysis Using Solar Energy”.



5. STUDENTS' ACTIVITIES

Applied Mechanics Department

- All the students of B.E. Civil (Final Year) and M.E. (Structures & Geo-tech) attended the Academic Semester End Exhibition-Winter 2018 organized by CEPT University on 10th Dec'18.
- Het Modi, Drashti Shah, Abhijeet Panchal, Kina Shah, students of B.E. Sem VIIIth, had participated in the National Level event entitled “ INSDAG Civil Award Competition 2017-18”. The event required students to design an Innovative Car Service Station. These students are among the 19 teams across the nation shortlisted for the final round, the latter will be organized at Kolkata in Feb'19. Students were mentored throughout and will be mentored further by Prof. C.D.Patel.

Automobile Engineering Department

- Mr. Arjun and Mr Kishan Gohel volunteered AWIM National level event held at Chitkara University-Chandigarh during 21-22 December 2018.
- LDCE Motorsports team has tested their ATV for 150kms without any major breakdown and will participate in MEGA-ATV in Upcoming month.
- Project of Mr, Rahul Pattani was selected by SSIP Committee at institute level and is sanctioned with grant of Rs. 50,000.

Chemical Engineering

- Mohit Agarwal and his team received Rs 10000/- award on 12th October, 2018 for their excellent performance in the Grand Challenge under Idea Stage in Vibrant Gujarat Startup and Technology summit,

Electronics and Communication Department

- Vatsal Kariya was the winner in Elocution Competition under theme “Space Unites the World” organized by ISRO during ISRO World Space Week (4th -10th October 2018).



- Vatsal Kariya got the consolation prize in presentation competition under theme “Space Unites the World” organized by ISRO during ISRO World Space Week (4th -10th October 2018).
- Jinal Patel of 5th Semester had participated in inter University Swimming champion ship held at SCET College on 10th October and has won 3 Bronze, 2 silver and 1 gold Medals. She has also got selected for all India University Swimming Championship.



- 5th semester students were instrumental in the successful execution of LDCE Garba called "Thanghat" at college ground on 12th-13th October 2018.
- Ronak Asodiya, Shesh Mali, and Prithish Prajapati along with computer and mechanical students have been selected as winners (Rs 10000 Cash Prize) of Idea stage in grand challenge organized at Vibrant Gujarat start up Summit for their product "Automated Solar Panel Cleaning System".



- Rashi Desai of 7th Semester has been awarded with the Grace Hopper Scholarship Award for the prestigious Grace Hopper Women in Computing Conference, India on 9th October 2018.
- Rashi Desai had participated in India Human Computer Interaction Conference, Bangalore. She will be conducting one of the three workshops on "Sales Prediction by UX Usability" selected out of 147 submitted entries.
- Aanal Shah filed for provisional patent on "Light Encrypted Security Mechanism" in December 2018.
- Hasmukh Nakum and Allihusain Vohra of 5th Semester attended SSIP Workshop at KCG in November 2018
- Aishwarya, Divya Patil, Vishwa bhavsar, and Kavisha Parikh ME 1st year students coordinated the expert talk on "RF and Microwave Education- Current and

Future Trends" by Prof. Shiban Koul (Professor-IIT Delhi) and Dr. Rajeev Jyoti, (Dy. Director, SAC, ISRO, Ahmedabad) for BE and ME students on 7th December, 2018 at Bhaskaracharya Hall by IEEE AP/MTT Chapter.

- Aishwarya Acharya is an AJ (App Jockey) and her program called "Gujarati Morning Maza" got featured on matrubharti.com on 13th December 2018.
- Aishwarya Acharya of 6th Semester won 3rd prize in singing competition at "Yuva SPANDAN 2018" the 34th Inter University West Zone Youth Festival at Pune. She will be representing our university at Chandigarh Nationals.

Environment Engineering Department

- BE first year student namely Parthav Aghara has secured first place in 38th Gujarat State Roller Skating Champion Ship – 2018 held in November at Ahmedabad in Slalom Speed Skating. He also represented Gujarat in 5th National Roller-Skating Championship held at Vizag on 18th to 23rd Dec 2018 & secured 6th place in all over India.
- Post Graduate students namely Anjali Patel and Sarah Syed has participated in Vibrant Gujarat Startup and Technology Summit held on 11th to 13th October 2018 at exhibition center, Gandhinagar and displayed their project titled on "Recycling of Urinal Wastewater using Electrolytic Process".



- PG student Sarah Syed has presented a poster/paper in twentieth National Symposium on Environment (NSE-20th), at Indian Institute of Tech., Gandhinagar on 13-15 Dec 2018.

Instrumentation & Control Engineering

- M.E. Student R. B. Gadhiya achieved gold medal in M.E. Applied Instrumentation in 2018 at GTU
- B.E. Students Khushboo, Chandan, Mayank & Rohan participated and awarded as 1st winner for presentation on Cyber Security and Automation in AGICEM 2.0 organised by ISA student's chapter at Nirma University.



- B.E.Semester VII/V Students Vivesh Patel & Parikhshit Dhhivalkar winner zonal & inter zonal level of GTU spirit 2018 in chess.



- B.E. Semester VI student Dhruvil Khatri was selected to attend at National Level “Advanced Leadership Camp” held at NCC academy Jorhat, Assam from Ahmedabad Group.

Mechanical Engineering Department

- Mechanical students with Prof. H A Shukla have visited REFCOLD on 23rd Nov. 2018 at Mahatma Mandir, Gandhinagar.



- Meet Gandhi and Jani Mrudang have participated in state level event I.Fest 2018 at DAIICT, Gandhinagar on 07th October 2018 sponsored by IEEE.
- Havmor ice cream plant visit at 10/10/2018 Conducted by Prof. R J Jani, Prof. H. A. Shukla and Prof. (Dr.) S. M. Mehta. ME CRYOGENIC & interested final year students have participated.

- Under the guidance of Prof. G. N. Sutaria, Sumanth Mudaliar and his team from final year got financial support of Rs. 50,000/- towards prototype development for their start up titled, “Super Sweeper” under SSIP policy of Government of Gujarat.
- Prof.(Dr.) S.M.Mehta and Prof.H.A.Shukla has coordinated the inter college technical quiz competition “A Quest 2018/19” for ISHRAE Ahmedabad chapter at LDCE, Prof.R.O.Paliwal and Prof. (Dr.) Ragesh Kapadiya has also contributed their expertise as a technical advisor of the event at LDCE on 19/12/2018 at Mechanical Seminar hall.



- Nisarg Ranpura -Nikunj and Gaurang-Lokumar Singh students of 8th semester Mechanical have won the “A Quest” inter college technical quiz competition with 1st and 3rd position respectively on 19/12/2018 at LDCE. They won certificates and Trophy and Qualified for National Quarterfinal at Pune. They have prepared under the guidance of RAC group of faculty members.



SSPKM fifth Sports day and won prize of Rs.8000/- on 23rd December, 2018 at Ahmedabad.

Textile Technology

- Two students of B.E. Sem VIII attended full day workshop on “Application of Plasma in Textile Processing”, at FCIPT, a Unit of IPR on 20th Nov.18

6. COLLEGE ACTIVITIES

L D College of Engineering undertakes various activities towards the betterment of the society. The various units of LDCE works in the field of social reforms.

GTU Cycling to Sabarmati Ashram (2nd October, 2018)

- On the auspicious occasion of “Gandhi Jayanti”, our volunteers along with the Principal Dr. G. P. Vadodaria and the Program Officer of NSS Major (Dr.) C. S. Sanghvi participated in a cycle rally from GTU, Chandkheda to Sabarmati Ashram, which holds a memorable place in the history of Independence. With the cycle rally, the volunteers aim to contribute towards a greener and safer environment.



Alfaz - Kuchh Lamhe Khud ke Naam (8th October, 2018)

- This open-mic was a feast to listeners. In terms of literature, it was also known as “Mushayro”. Famous poets of Ahmedabad participated to boost the young aspirants and artists of the college. The poets were Balkrushna Soneji, Gautam Parmar, Ravi Dave, Hardik Pandya, Viral Desai, Varsha Prajapati, Roshni Patel and Girish Bhrmabhattach.

Plastic Technology

- 05 Students of VI SEM participated in Elocution competition and Essay competition as a part of celebration of 150th Birth Year of Mahatma Gandhi organized on 06/10/2018, Saturday.



- Student of 6th SEM, Animesh Gopal won 2nd Prize in Essay writing competition on topic “Importance of Gandhian thoughts about Cleanliness” as a part of celebration of 150th Birth Year of Mahatma Gandhi organized on 06/10/2018



Rubber Technology

- Dhruvit Vaghasiya, student of B.E. Sem III, Rubber Technology participated in cultural event in



Pledge for Unity (31st October, 2018)

- The Iron man of India Shri Sardar Vallabhbhai Patel, who is also known as a founding father of the Republic India played a leading role in the country's struggle for independence and guided its integration into a united, independent nation. On his birth anniversary, NSS LDCE volunteers pledged for Unity and supported the nation at inauguration of the "Statue of Unity".

Joy of Giving with Ahmedabad Mirror (13th November, 2018)

- The "Joy of Giving" is a step towards the society to help the needy ones by donating the essential things for the survival. Volunteers distributed the donated clothes to the needy ones. The volunteers were accompanied by reporters of Ahmedabad Mirror.



Joy of Giving (31st October, 2018)

- The "Joy of Giving" is a step towards the society to help the needy ones by donating the essential amenities. Volunteers distributed the donated clothes to the needy ones. About 60 blankets were distributed as winter was approaching.

Pre-Republic Day Parade Camp (24th Nov- 5th Dec, 2018)

- Pre-Republic Day Camp is being organized every year to select NSS volunteers for Republic day parade. Selection process includes 200 students from 5 zones respectively to select best 200 candidates for Delhi for Republic Day Parade. West zone includes states as Gujarat, Maharashtra, Andhra Pradesh, Goa, Telangana and the Union Territories of Diu & Daman and Dadra Nagar Haveli. A team of total 56 volunteers were selected as a part of Team Gujarat which included 15 volunteers from GTU, of which, two NSS volunteers were selected from NSS LDCE. Darshan Nayak and Mayur Trivedi were selected for the west zone Pre R D Camp from 24th November to 5th December, 2018 at Nagpur, Maharashtra.



National Integration Camp (25th to 1st December 2018)

- The National Integration Camps (NICs) are organized at different places all over the country by NSS to foster the feeling of National Integration. The NIC was organized at Sardar Patel University at Anand in the above-mentioned period. More than 250 NSS participants had been invited from different states including Parixit Dedun and Vaishali Pargi of L D College of Engineering.



National Integration Camp (23rd to 29th November 2018)

- The National Integration Camps (NICs) are organized at different places all over the country by NSS to foster the feeling of National Integration. The NIC was organized at Yelahanka, Bangalore in the above mentioned period. More than 100 NSS participants had been invited from 10 different states including Mamta Khatri of L D College of Engineering.



VoSAP Seminar (5th December, 2018)

- A seminar was arranged by VoSAP (Voice of Specially Aabled People) and addressed by President of VoSAP, Dr. Pranav Desai regarding accessibility audit of the campus.



Cultural evening of UNESCO, WHO

Volunteers coordinated with the artists and participated in the cultural evening organized by the UNESCO on 5th December, 2018. The World Heritage Volunteers were given a glimpse of the culture of India via Art, Music and Dance.



Welcoming Blood Donor Cyclist (18th December, 2018)

- NSS Volunteers welcomed & joined Mr. Jaidev, cyclist from West Bengal who was on the mission to promote of Blood Donation in India. NSS volunteers have joined him with cycle from Sabarmati Ashram to Red Cross Society to LDCE symbolically to promote blood donation as our institute is doing the best in this area. Vadodaria sir has presented him a memento and Certificate of appreciation.

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

Sr. No.	Titles	Faculties	Department	Venue	Duration
01	Heat Exchange Process Intensification	Rajul P. Bhatt, H. N. Pandya, T. S. Rajaraman, Ronak R. Patel, Nikita Ambegaonkar, Purvi Shukla	Chemical Engineering	L. D. C. E., Ahmedabad	31 st December 2018 to 5 th January 2019
02	Introduction to machine learning	Dr. Hiteishi Diwanji	Information and Technology Department	Online MOOC course offered by NPTEL	27 th July to 19 th October 2018
03	Computer Networks and Internet Protocol (cs38)	Prof Bakul Panchal, Prof Shital Solanki, Prof Jahnavi Patel, Prof Swati Patel, Prof Pradip Patel		Online MOOC course offered by NPTEL	30 th July to 19 th October 2018
04	Induction Phase-I (Guj-15)	Prof Manoj Patel		NITTTR Ext. Center, Ahmedabad	22 nd October to 2 nd November 2018



05	Python and its Applications	Prof Pradip Patel		BVM ,Vallabh Vidyanagar	26 th November to 8 th December 2018
06	Advances in Refrigeration and Air conditioning	Prof. R.J.Jani, Prof. M.A.Shaikh, Prof. S.N.Patel, Prof. V.R.Patel	Automobile Department	L. D. C. E., Ahmadabad	08 th October to 12 th October 2018
		Prof. P.V.Jotaniya, Prof.N.H.Pancholi	Mechanical Department		
07	Beyond the Classroom towards Excellence	Prof. V D Sonara	Mechanical Department	IITE, Gandhinagar	23 th September to 28 th September 2018
08	Modeling and Simulation using MATLAB	Prof. P C Sheth, Prof. H P Patel, Prof. D R Shah, Prof. H A Shukla, Prof. B K Patel, Prof. D K Patel, Prof. J P Dataniya		L. D. C. E., Ahmedabad	13 th November to 17 th November 2018
09	Advances in Urban Water Engineering and Management	Prof. V.J. Chitaria	Civil Department	IIT, Mumbai	10 th December to 14 th Dec 2018
10	Modeling and Analyzing Sustainable Transport	Prof. (Dr.) P. J. Gundaliya Prof. J. S. Kamble		IISc, Bangalore	17 th December to 21 st December 2018
11	Digital signal processing	Prof. V. P. Patel	IC Dept.	N.I.T.T.T.R, Bhopal	20 th Aug to 24 th Aug, 2018
12	Induction phase 2	Prof. V. V. Patel		R.C.T.I., A'hd	27 th Aug to 08 th Sep.18
13	Faculty Development Programme	Prof. L. S. Patel		I.I.T.E., Gandhinagar	27 th July to 02 nd Aug 18
14	Induction Phase-1			N.IT.T.T.R, Bhopal	22 nd Oct to 02 nd Nov.2018
15	“Entrepreneurship education: Skill Development for Faculty-Trainers”	Prof. A.D.Bhatt	Rubber Technology Department	Oakbrook Business School, Adalaj, Gandhinagar	10 th Dec to 22 nd Dec, 2018
16	Induction Phase-II training	Prof. G.G.Bhatt		NITTTR, Bhopal.	12 th Nov to 23 rd Nov, 2018
17	MATLAB training session by Designtech/Mathwork	Prof. G.G.Bhatt, Prof. P.N.Chavda		LDCE, Ahmedabad	11 th December, 2018



18	Entrepreneurship Education: Skill Development for Faculty-Trainers	Prof. Stuti R.Shah	Plastic Technology	Oakbrook Business School	11th December, 2018 to 22 nd December 2018
19	Python and its applications	Prof. Abhay Upadhyay	EC Department	BVM, Vidhyanagar	26th November to 8th December 2018

M.E. Dissertation

Electronics and Communication Department

Sr. No.	Title of thesis	Name of student	Guide
1.	Design network model to prevent IoT device hack	Baranda Viralbahen	Prof. B. S. Sedani
2.	Design and develop scalable infrastructure of IoT gateway	Chaudhari Harshida	Prof. A B Nandurbarkar
3.	Design and development of Solar cell optimization using image processing	Chaudhari Priyanka	Prof. P.J Brahmabhatt
4.	Performance evaluation of Filter bank multicarrier(FBMC) over OFDM in 5G wireless communication system	Gadhvi Rajesh	Prof. B. S. Sedani
5.	Analysis of Ionospheric scintillation using IRNSS data	Gamit Miteshbhai	Prof. K.R. Sheth
6.	Hyper spectral remote sensing design, development and data analysis	Gaurav Jha	Prof. Usha Neelakantan
7.	Synthetic Aperture Radar(SAR) Sensor Performance Monitoring and Data Quality Evaluation	Greeshma Santosh	Prof. A B Nandurbarkar
8.	Real time traffic sign detector	Hathila Truptiben	Prof. K. G. Vaghela
9.	development of automated measurement set-up for performance evaluation of Opto-electronic system	Isarani Bhumika	Prof. Usha Neelakantan
10.	Performance evaluation of Gaussian distribution nonlinear distortion	Kurmi Siddharth	Prof. Usha Neelakantan

LDCE

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11.	Channel estimation for advanced wireless communication system using polar code	Mayank Kalsariya	Dr. N.A. Kotak
12.	Implementation of data encryption and decryption using AES algorithm	Nakum Jalpa	Prof. P.P. Prajapati
13.	RTL Implementation of AHB and self check verification in Verilog	Solanki Pinal	Prof. S.B. Prajapati
14.	Performance analysis of F-OFDM and Massive MIMO in advanced wireless communication system	Tank Hardik	Prof. B. S. Sedani
15.	IoT based application	Varsha Singh	Prof. A B Nandurbarkar

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