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Book-Post

To, _____

1. FROM THE DESK OF THE PRINCIPAL



Principal, Dr. G. P. Vadodaria

Dear faculty members and students,

Our college organized **Kaizen 2017** on 18th and 19th April 2017 to showcase the projects of final year UG and PG students. On the next day all the graduating students were felicitated in the presence of B N Navalawala, LD Alumni, who is presently serving as Chief Advisor to ministry of water resources, River Development & Ganga Rejuvenation GOI along with Shri S S Rathod, Chairman of Sardar Sarovar Nigam Ltd, also LD alumni. On 26th April, Dr Bijoykumar Das, a retired ISRO scientist who has settled in the USA since 30 years, delivered a talk on innovative projects undertaken by him to ignite the young minds. Probably this was one of the best talks of the year which might have rekindled the innovative minds of many students.

I am delighted to share that this year for the first time 150+ companies have visited the campus and recruited nearly 550+ students with a package ranging from 3.5 lakh to 12 lakh and still many companies are visiting the institute for recruitment even though Year 2017 batch students have graduated. This all has happened because of the hard work of students and dedication of the faculty members.

Let's continue doing good things to preserve the glory of LDCE.

Dr. G. P. Vadodaria

30th June 2017

2. PAPERS PRESENTED/PUBLISHED

Applied Mechanics Department

- Dr.M.V. Shah has published research papers 1. With Harshit Pandya (PG student) on "Influence of chemical additives on shrinkage and swelling characteristics of bentonite clay" in Journal of Procedia Engineering (Elsevier Publications), Vol.189 (2017), pg.932-937, ISSN: 1877-7058. 2. With Ravi Joshi (PG student) on "Strength characteristics of jointed rock matrixes with circular opening under triaxial compression" in Proceedings of 51st US Rock Mechanics-Geomechanics Symposium during 25th -28th June 2017, San Francisco, USA. Paper no.1014. 3. With Devang Gajera on "Slope stability analysis using a horizontal slice method" in Proceedings of 3rd North American Symposium on Landslides during 4th-8th June 2014, Roanoke, Virginia, USA.
- Prof. D R Tarachandani has published research papers 1. With Karan V. Rupani (PG Student) on "Analysis and Parametric Study of Cylindrical Oil Storage Steel Tank with Emphasis on Seismic Design" in International Journal for Scientific Research & Development, Vol-5, Issue 02, April 2017, ISSN (online): 2321-0613. 2. With Topiwala Zaid M. (PG Student) on "Compressive Strength Analysis of Lightweight Aggregate Concrete with Sintered Fly Ash Aggregates" in International Journal of Modern Trends in Engineering and Science, Vol-04, Issue 04 2017, ISSN (online): 2348-3121. 3. With Topiwala Zaid M. (PG Student) on "Compressive Strength Analysis of Lightweight Aggregate Concrete with Light Expanded Clay Aggregates" in International Journal of Modern Trends in Engineering and Science, Vol-04, Issue 04 2017, ISSN (online): 2348-3121
- Prof. P.G.Patel has published research papers 1. With Viral R.Kapadiya on "Comparative study of 400 kV M/C suspension and tension tower with Rectangular and Square Base" in International Journal for Scientific Research & Development (IJSRD) e-journal volume 2, issue 2 in April 2017. 2. With ME Student Rajatkumar B. Patel, on "Parametric study of raft foundation for Multi-storey building with different structural system and for varying Sub-soil condition" in International Journal for Scientific Research & Development e-journal volume 5, issue 2 in April 2017. 3. With ME Student Rajatkumar B. Patel, on "Parametric study of Pile raft foundation for Multi-storey building with different structural system for soft soil condition" in International Journal of Modern Trends in Engineering Science volume 4, issue 04 in April 2017.
- Prof. D.H.Raval has published research papers 1. With M.E Student Aditi Parekh on "Effect of Sequential Construction Analyses in RCC Buildings for Gravity Loads" in IJMTES, vol. 5, issue 2, 2017. 2. With M.E Student Aditi Parekh on "Influence of Lateral Loads in Design of RCC Buildings using Sequential Construction" in Journal: IJSRD, vol. 4, 2017.
- Prof. A J Shah has published research papers 1. With Savaliya Riddhi on "Improvement of clayey soil using saline solution by Electro-Osmosis Technique" in International Journal of Modern Trends in Engineering

and Science ISSN: 2348-3121 page175-178. 2. With Rishi Pandya on "Influence in strength of Clayey soil using Alkali activated fly ash" in International Journal of Modern Trends in Engineering and Science (IJMTES) ISSN: 2348-3121 page 171-174. 3. With Vrunda Joshi-Pandya on "Influence of Textile Effluent and Dye effluent on strength of a clayey soil" in International Journal of Modern Trends in Engineering and Science ISSN: 2348-3121 page 183-186.

- Prof. K.A.Parmar has published research papers 1. With Seema I. Mansuri (PG Student) on "Experimental study for cold formed built up sections with edge stiffener under bending" in International Journal of Modern Trends in Engineering and Science, Vol. No. 4, Issue. NO. April 2017, pg. 259-263, ISSN:2348-3121. 2. With Aakanksha Singh (PG Student) on "Shear Deformation of Seismic Force Resisting System Considering different Aspect Ratio" in International Journal of Modern Trends in Engineering and Science, Vol. No. 4, Issue. NO. May 2017, pg. 83-86, ISSN:2348-3121
- Tushar A. Jadav and A. G. Hansora have published a paper on "Rapidly Deployable Disaster Relief Shelter", International Journal of Modern Trends in Engineering and Science, Vol. 4, Issue 04, 2017, pp. 247-252, ISSN: 2348-3121.
- Nirav Patel and A. G. Hansora have published papers on 1. "Experimental Study of Load Carrying Capacity of Precast RCC Slab Panel with the use of Pond Ash and Quarry Dust" in International Journal for Scientific Research & Development| Vol. 5, Issue 02, 2017, pp. 1308-1310 | ISSN (online): 2321-0613. 2. "Experimental study of double T slab with conventional concrete and concrete made up with Quarry Dust and Pond Ash" in International Institution for Technological Research and Development, Vol. 2, Issue 01, 2017, pp. 32-35, ISSN (online): 2455-5371.
- Tanmay A.Agrawal, Dr V. S. Purani and A. G. Hansora have published a paper titled "Categorization of Damage in Heritage Load Bearing Masonry Structure" in International Journal of Modern Trends in Engineering and Science, Vol. 4, Issue 04, 2017, pp. 327-331, ISSN: 2348-3121.

Chemical Engineering Department

- Prof. S. M. Dutta and Jaymin Patel, M.E student have published a paper on "Treatments of Effluent from Resin Industry by Hybrid Reverse Osmosis System" in International Journal on Advance Research and Innovative Ideas in Education, Volume: 3, Issue: 2, 2017, ISSN(O): 2395-4396.

Civil Engineering Department

- Prof. Sandip C Rathod presented papers 1. With Roshni Suchak on "Feasibility study of flyover on Pakwan cross road across national highway" in National Conference on New Horizons in Civil Engineering dated 25th -26th March 2017. 2. With Murhura Wycliffe on "Development of a pedestrian accident prediction model for an urban road" in National Conference on New Horizons in Civil Engineering dated 25th -26th March 2017.
- Prof. Dr. P.J.Gundaliya presented papers 1. With Vihar Trivedi on "Estimation of passenger car unit" in National

Conference on New Horizons in Civil Engineering dated 25th-26th March 2017. 2. With Sandip G. Patel on "Development of Dwell Time Model: A Case Study of BRTS Ahmedabad" in National Conference on New Horizons in Civil Engineering dated 25th-26th March 2017.

- Prof. Dr. P.J. Gundaliya published papers 1. With Patel Sunnykumar K. on "Optimization of Bus Driver Scheduling" in International Journal of Advance Engineering and Research Development; Volume 4, issue 3; 3rd March 2017. 2. With Patel Mitul G. on "A Study on Speed Breakers" in International Journal Of Advance Engineering And Research Development ; Volume 4, issue 3; 3rd March 2017. 3. With Ujjaval J. Solanki and M.D. Barasara on "A study on FWD Deflection Bowl Parameters for structural evolution of Flexible Pavement" in Trends in Transportation Engineering and Application ISSN 2394 7284 in; Volume 4, issue 1; March 2017.

General Department

- Dr. H.C. Patel, Professor and Head, General Department, has published a paper titled "Experimental Performance Analysis of Ferrofluid based Hydrodynamic Journal Bearing with Different Combination of Materials" in collaboration with N.S. Patel, D.P. Vakharia and G.M. Deheri, in an International Journal WEAR Vol. 376, pg. 1877-1884 in April 2017. D.O.I.- 10.1016/j.wear.2017.
- Z.A. Patel, Assistant Professor in Mathematics, has published a paper titled "Congenital Transmission of Chagas with Control Dropout and Spraying" in collaboration with Dr. Nita H. Shah and Bijal Yeolekar, Gujarat University, in "International Journal of Applied and Computational Mathematics" Springer Publication. D.O.I.- 10.1007/5-40819-017-0349-X.
- Z.A. Patel, Assistant Professor in Mathematics, has published a paper titled "Preventions and Controls on Congenital Transmission of Zika: Mathematical Analysis" in collaboration with Dr. Nita H. Shah and Bijal Yeolekar, Gujarat University, in "Applied Mathematics" by Scientific Research Publishing, Vol.8, No. 4, April-2017. D.O.I.- 10.4236/am.2017.84040. The same paper was covered and appreciated in leading English Newspaper *Times of India* dated 6th June 2017.

Electronics and Communication Department

- Shri Pratik I Panchal, PG student presented a paper titled "Performance of Different Equalizers" with co-authors Prof Usha Neelakantan and Dr. Mihir V. Shah in the National Conference 'NCACSET-2017' on 6th May 2017 hosted by Computer Engineering Department of LDCE, Ahmedabad
- Ms. Prajapati Dhruvi Devidas, PG student, presented paper titled "Design of Frequency Multiplier at 120 GHz for Submillimeter Wave LO Development" with co-author Prof Usha Neelakantan and won First Prize in the National Conference 'NCACSET-2017' on 6th May 2017 hosted by Computer Engineering Department of LDCE, Ahmedabad
- Mr. Kavaiya Sagar D, PG student, presented a paper titled "Windowing Function Analysis for Multi Carrier Transmission" with co-author Prof Usha Neelakantan in the National Conference 'NCACSET-2017' on 6th May 2017 hosted by Computer Engineering Department of LDCE, Ahmedabad.

- Mr. Sumit Trivedi, PG student, presented a paper titled "Offline Handwritten Character Recognition for Gujarati Language" with co-author Prof Arun Nandurbarkar in the National Conference 'NCACSET-2017' on 6th May 2017 hosted by Computer Engineering Department of LDCE, Ahmedabad.
- Mr. Dhruvisha Patel, PG student, presented a paper titled "Content Based Image Retrieval for Diagnosis of Brain Tumour" with co-author Prof Arun Nandurbarkar in the National Conference 'NCACSET-2017' on 6th May 2017 hosted by Computer Engineering Department of LDCE, Ahmedabad.
- Vandit Gajjar of Sem VI presented a paper on "Real Time Colour Segmentation and Colour filtration" in the National Conference 'NCACSET-2017' on 6th May 2017 hosted by Computer Engineering Department of LDCE, Ahmedabad.
- Viraj Mavani, Ayesha Gurnani, Jhanvi Shah of Sem VI presented a paper on "A Novel Approach of Image Segmentation based on Histograms computed from Hue-data" in the National Conference 'NCACSET-2017' on 6th May 2017 hosted by Computer Engineering Department of LDCE, Ahmedabad.
- Yash Khandhediya, Karishma Sav and Vandit Gajjar of Sem VI presented a paper on "Human Detection of Night Surveillance using Adaptive Background subtracted Image" in the National Conference 'NCACSET-2017' on 6th May 2017 hosted by Computer Engineering Department of LDCE, Ahmedabad.
- Mr. Nikhil Chauhan, PG student, presented paper on "Performance Evaluation of Massive MIMO in terms of Capacity" co-authored by Prof. Usha Neelakantan in the National Conference 'NCACSET-2017' on 6th May 2017 hosted by Computer Engineering Department of LDCE, Ahmedabad.

Rubber Technology Department

- Prof. Rupande Desai & Ms. Heta Bhatt, student of M.E.IV have published a paper on "Blends of PLA with modified starch" in International Journal of Advanced Research in engineering science & Technology, Volume-IV, issue III, April 2017.
- Prof. Rupande Desai, & Ms. Heta Bhatt, student of M.E.IV have published a paper on "Biodegradability Test of Blends of PLA & Modified Starch" in International Journal of Advanced Research Innovative ideas in education, Volume-III, issue II, April 2017.

Mechanical Engineering Department

- Dr. K. G. Dave and Krupa Patel (PG Student) have published a paper titled "Review on Design of main Post Insulator of DNB Beam Source for INTF vacuum vessel" in International Journal of Advance Engineering and Research Development in Special Issue SIEICON-2017, April-2017 e-ISSN: 2348-4470 p-ISSN: 2348-6406.
- Prof Y D Vora and Divyanshu Sharma have published a paper titled "Design and stress Analysis of Heavy Duty Vehicle (Trailer) Chassis through FEM Software" in May 2017 Volume 5, Issue 4, ISSN 2349-4476 International Journal of Engineering Technology, Management and Applied Sciences.

- Prof Y D Vora and Divyanshu Sharma have published a paper titled "Design and vibration Analysis of Heavy Duty Vehicle (Trailer) Chassis through FEM Software" in May 2017 Volume 3, Issue 11, ISSN 2349-6185 International Journal of Engineering Science Invention Research & Development.
- Dr.P.R.Rathod has presented papers (1) with Mr. Bhargav Kanpara on "A Review on Hard Surface Coating applied using satellite hardfacing Techniques" in International Conference on latest concept in Science, Technology, Management and Humanities at NITTTR Chandigarh on 2nd April 2017 ISBN : 978:81:933746-4-1. 2. With Mr. Devang Kanaiya on "Design and Simulation of orbital welding Head used in welding pressure tube".in 2nd International Conference on latest concept in Science, Technology, Management and Humanities at NITTTR Chandigarh on 23rd April 2017 ISBN : 978:81:933746-9-6.

Information and Technology Department

- Dr Chirag Thaker has presented papers on (1) "Execution Time Enhancement Through Efficient Task Scheduling Algorithm in Cloud Computing Environment" (2) "An optimized task scheduling algorithm in cloud computing environment" and (3) "Data storage security model using homomorphic encryption." in National Conference on "Advances in Computer Science Engineering & Technology" organized by CE department, LDCE on 6th May, 2017.

3. DEPARTMENTAL ACTIVITIES

Applied Mechanics Department

- A presentation on "Finite Element Analysis for Structural Engineering Software" was arranged on 1st April 2017 for students of M.E Sem II & IV (Structures & Geo-tech). Software is developed by ISRO. The presentation was delivered by Vinod Alpedkar.
- A visit to ATIRA was arranged for ME Sem-II students along with Prof. Alpa J Shah on 15th May 17.

Automobile Engineering Department

- Eco Green Vehicle Challenge was held at L D C E during 6th and 7th April 2017. Total 17 teams registered out of which 13 teams had reported. Objectives of EGVC were to decrease carbon footprint by using human powered vehicle, to spread awareness about green environment and pollution control among upcoming generation. It also covered aim like ignite talent in young engineers by implementation of innovative ideas for betterment of environment condition, to facilitate society with sustainable human powered vehicle in terms of efficiency, ergonomics, safety, speed, comfort and economy, to provide platform for start-ups and to promote inclusive growth of academics and industries. More than 200 students had participated in EGVC. Climate change department and GEDA had sponsored this event organised by SAE LDCE Club. Prof. G H Upadhyay and Prof. R J Jani were the conveners of this event, coordinated by Prof. Mazar Shaikh, Prof. Dhruv Panchal and Prof. Sulay Patel.



Chemical Engineering Department

- The department organized an ISTE approved one week STTP on "Process Intensification through Energy Conservation" from 1st -5th May, 2017. 38 faculties from all over Gujarat attended the STTP. GTU, Ahmedabad partially sponsored the event..



Civil Engineering Department

- Department organised one-week STTP approved by CTE & ISTE named as "Soft Computing Techniques in Transportation Engineering" at LDCE, Ahmedabad during 1st May 2017 to 6th May 2017.

Computer Engineering Department

- Department organized one day National Conference on "Advances in Computer Science Engineering & Technology" on 6th May'2017 in association with Computer Society of India, Association of IoT with Cloud & International Journal for Scientific Research and Development. Dr. D. A. Parikh was the Coordinator and Dr. G. P. Vadodariya, Principal, LDCE was Patron of this conference. Prof. Usha Nilkanthan, Head of EC Dept. and Dr. Sameer Patel (Chairman CSI chapter), Assistant professor at PDPU were invited as a special guest in this conference. Dr. Kiran Amin, Principal, U V Patel College of Engineering and Dr. K G Maradiya, Professor EC Department, GEC, Sec 28, were jurors. More than 60 papers were received from various degree/diploma engineering colleges from different disciplines and industries, out of which 47 papers were selected. Best three papers were awarded with special certificates.



- In association with GTU, Department organized a seminar on "Overview of Mobile, Cloud Computing and Data

Mining Algorithms” for igniting research in latest trends on 30th June 2017. Fulbright Specialist Dr. Anu A. Gokhale had delivered expert talk followed by informal interaction with faculties and students. More than 120 students and staff members had participated in the seminar.

Electrical Engineering department

- Electrical Engineering Department had organized one week STTP on “Hands on experience on Siemens AC-DC drives and PLC” from 12-06-2017 to 16-06-2017. Dr. MC Chudasama coordinated the STTP. Prof. D D Trivedi and Prof. M V Vasavada were co-coordinators of the STTP. Mr. Akash Joshi and Mr. Shaheed Sharma, DesignTech Systems Ltd. were the course faculties. Twenty seven faculties participated in the STTP. From LDCE Electrical Engineering Department, Prof. U L Makwana, Dr. M C Chudasama, Dr. H.D. Mehta, Prof. Sajid M. Patel, Prof. Lalji K. Katariya, Prof. Rachana J Patel, Prof. Falguni Shah, Prof. MR Vasavada, Prof. B G Chaudhari, Prof. HN Raval, Prof. Tejas R. Patel, Prof. Gaurang B. Buch, Prof. Mitul G. Patel, Prof. D D Trivedi, and Prof. Nupur V Sinha had participated in this training.



Electronics and Communication Department

- Dr. Mehul Rawal and Dr Dhaval Patel of Ahmedabad University had delivered expert lectures on “Motion Segmentation” and “Performance Analysis and Coding of Wireless System” respectively on 11th and 12th April, 2017.
- Department celebrated 49th World Telecommunication and Information Society Day 2017 by ISF (IETE) and IEEE student Chapters on 17th May 2017. Shri Harshvadan Jani, Reliance Industries, Ahmedabad was invited to speak on “Trend in Wireless technology and the societal Impact” and IETE Chairman Shri V K Jain, Retired Scientist was also present.
- GTU has selected EC Department for hosting GTU Centre of Excellence for Telecommunication.
- Department had organized a Career guidance seminar on 17th June 2017 in association with IEEE-WIE Affinity Group supported by Career Launcher for 12th standard students aspiring for admission to engineering courses.
- ME 2nd SEM students visited Reliance Jio Cell site accompanied by Dr. B.S.Sedani at Dehgam Naroda road.

General Department

- An ISTE and AICTE approved Short Term Training Programme on “English for Technical Teachers” was organized by General Department between 5th to 9th June 2017 in which around 25 faculty members from various Technical Institutions participated. The programme was coordinated by Dr. A.B. Dharankar and M.A.Joshi, both Assistant Professors in English, General Department, and

Prof(Dr) H.C. Patel had been the Convener of this STTP.



Mechanical Engineering Department

- Mechanical Engineering Department and American Society for Metals International Gujarat chapter organized a seminar on “Al Alloy development for defense and recycling technology” on 5th May 2017 at Dr. V.J. Jani Auditorium, Workshop Building. This Seminar was coordinated by Prof. G.H. Upadhyay, Prof. P.R. Rathod and Prof. D.K. Patel. Prof. Jyoti Mokhopadhyay, an eminent professor from IIT, Gandhinagar, delivered a very thought provoking lecture on the subject.
- ASM International Gujarat Centre Office was inaugurated by Prof. Prem Kumar Arora, Chairman, ASM India, on 3rd June 2017, at Dr. V.J. Jani Auditorium, Workshop Building. LDCE, Ahmedabad is honoured to have a first centre of its kind in India. This collaboration between ASM and LDCE, Ahmedabad will encourage research in welding and metallurgy at the institute. It will also provide a very rich library and will organize expert talks and training programmes relevant to the theme by well-known experts in Material science & welding technology fields. The inaugural function was coordinated by Prof. G.H. Upadhyay, Prof. P. R. Rathod and Prof. D.K. Patel.
- In line with the Indian Government's initiative for start-ups, Mechanical Engineering Department organized a one day training programme on Entrepreneurship Development on 13th April 2017 at Dr. V.J. Jani Auditorium, Workshop Building. Eminent speakers from industry and EDI delivered lectures and shared their valuable experiences with the final year students. Dr. P R Rathod, Prof M. K. Vyas and Prof S. S. Gosai had coordinated the programme.



Plastics Technology Department

- Expert lecture by Mr. Hardik Panchal from HARDYPLAST on Wood Plastics Composites was organized on 23rd May 2017.
- Under Vikas Lakshi-2017 new machines like Rotational Moulding machine, Vacuum forming machine, High frequency welding machine and Hand gloves making

machine were purchased and installed in the processing laboratory of the department.

Rubber Technology Department

- An expert lecture series was organized (1) for B.E.Sem. VI on "Reverse Engineering for Rubber Products" by Mr. Darshan Shah, MD, rubber Concept Industry (2) for B.E. Sem. IV on "Role of Plasticizers in Rubber Products" by Mr. Atul Shah, MD of Pioneer Rubber Industry, (3) for M.E. Sem. IV on "Powder & Particulate Technology" by Mr. Ronak Panchal, Industrialist, during the month of April 2017.
- An expert lecture was organized for B.E. Sem. VIII on "Safety & Hazards in Rubber Industry" by Mr. Prakash Patel, MD of Agile Rubber Industry, 6th April 2017.

Information and Technology Department

- Department had organized an expert talk on "Let's start learning basics of embedded systems" on 1st April 2017 at 10:30 a.m. onwards in IT classroom 101 for the first and second year students.
- Team of 65 students from the 4th semester and 3 faculties of IT department had visited Bhaskaracharya Institute for Space Applications and Geo-informatics (BISAG), Gandhinagar on 26th April 2017. They visited the studio with Mr. Kamlesh Amin, he explained about the GIS system and about the different project works carried out by institute.
- Department organized an expert talk on Project monitoring and mentoring system for final year student on 29th July 2017 at 10:30 a.m. onwards in IT classroom 101. The talk was delivered by Mr. Nitin Magjikondi from GTU. He created awareness among students about the PMMS activity from starting to end with brief introduction and different types of processes through which students must have to pass during their final year.

4. FACULTY ACTIVITIES

Applied Mechanics Department

- Prof. P.G. Patel had delivered expert lectures on (1) "Application of Staad Pro Software for Structural Analysis and Design" at a training program at RCTI extension centre of NITTTR. (2) "Earthquake resistant features of Structures" at a training program at GIDM on 13th April, 2017. (3) "Safe school buildings – Important Aspects and codes" at a training program conducted by GSDMA for engineers of Sarva Siksha Abhiyan in April 2017.

Chemical Engineering Department

- Prof. Sachin P. Parikh has been selected as a Member of Academic Council, GTU, Ahmedabad.
- Prof. Sachin P. Parikh had delivered an expert lecture at training program for teachers organized by NITTTR, Bhopal Ex. Center, RCTI, Ahmedabad.

Civil Engineering Department

- Dr. P. J. Gundaliya has been selected as coordinator for the E-course on "Smart Transport for Smart City" implemented by GTU.
- Dr. P.J. Gundaliya had delivered an expert lecture on

"Stress in Pavement" in STTP sponsored by TEQIP-II on "Pavement Design and Construction at BVM, V.V. Nagar on 19th May 2017.

- Dr. P. J. Gundaliya had chaired a session as an expert in Civil Engineering Track of at National Conference on New Horizons in Civil Engineering 2017 and was expert speaker at SCET, Surat
- Prof. S.C. Rathod reviewed papers for National Conference on "Recent Research & Development in core disciplines of Engineering" held at Vadodra Institute of Engineering & Research, Vadodra during April 21st -22nd, 2017

Computer Engineering Department

- Prof. Hetal Joshiyara was invited as an expert from computer discipline at "Carrier Guidance" seminar organized for 12th passed students at EC Department, LDCE, Ahmedabad.

Electrical Engineering Department

- Dr. C D Upadhyay had delivered expert talk on (1) "Future need of Signal and Systems" at KJIT, Savali, Vadodra on 27th April 2017 (2) "Wind Energy Integration to grid and its issues" on 19th April 2017 at LDRP Gandhinagar.
- Dr. H D Mehta had delivered an expert talk on "Optimization Technique using MATLAB" at LDCE Ahmedabad on 5th May 2017 in a STTP on Soft-Computing Techniques in Transportation Engg. at LDCE Ahmedabad.

Electronics and Communication Department

- Prof. Usha Neelakantan rendered her guidance as Advisory Committee member in NCACSET-2017 and she delivered speech at the inaugural function on 6th May 2017 to motivate the participants. She was also a part of the organizing committee of NCACSET.



- Prof. Usha Neelakantan, Dr. Mihir V Shah, and Dr. B.S. Sedani attended inauguration of SAARC workshop and training programme on "Application of Space Technology in Monitoring and Managing Risks" on 24th May 2017 at GIDM, Gandhinagar.
- Prof. Arun Nandurbarkar visited Vikram Sarabhai Space Exhibition Centre, SAC, ISRO, Ahmedabad on 17th May 2017 along with BE-8th SEM students for National Technological Day Celebration.
- Dr. B.S. Sedani, Prof. Arun Nandurbarkar and Prof. Pinky Bhrambhatt carried out Fee Regulatory Committee Inspections in May 2017
- Prof. Arun Nandurbarkar attended FDP on "ASIC" at E-INFOCHIP during 12th-16th May 2017

Environment Engineering Department

- Prof. H S Syed had delivered a lecture titled "Environmental Audit Success Stories" at training program on Environmental Audit organized by Gujarat Pollution Control Board and SVNIT at Surat on 21st April, 2017.
- Prof. Y S Rami, Prof. V H Shukla, Prof. V M Barot and Prof. H D Panchal attended one day Seminar on "Environmental Researchers Meet" on 5th June 2017.

General Department

- Fenny J. Narsingani, Assi.Prof. in Mathematics, completed her Doctoral Research on "Investigation on Certain Problems in Mathematical Modelling of Bio-Mathematics" from Hemchandracharya North Gujarat University, Patan in June 2017.

Mechanical Engineering Department

- A total of 1507 applications were received at MYSY help center. All applications have been processed by Prof. R.O.Paliwal, Prof. S.A.Saraswat, and Prof. M.K.Vyas successfully from August 2016 to May 2017.
- Dr. B.C.Khatri, Dr. P.D.Patel and Prof. H.A.Shukla conducted various Admission Awareness Programs at different locations for ACPC across the state.
- Prof.H.A.Shukla has been nominated as a core working committee member for ISHRAE Ahmedabad Chapter.

Rubber Technology Department

- Prof R.N.Desai had arranged pedagogy meetings with (1) Mr. Ronak Panchal, Industrialist, for "Energy Saving during Rubber Processing" on 4th March 2017 (2) Dr. Arup Chandran, Head, R & D, Apollo Tyres Ltd., for "Innovation in Tyre Design" on 15th April 2017. (3) Mr. Pradip Mukharji for "Know about Design of Life" on 6th May 2017. (4) Mr. B.K.Swant & Mr. Biplap Pathak, Head of Production & HR, BKT Tyres, Bhuj, for "Design of Solid Tyre" on 20th May 2017 attended by all faculties of department.
- Prof. R.Y.Modan, Prof. G.G.Bhatt & Prof. P.N.Chavda attended an inauguration program of "Application of Space Technology in Monitoring & Managing Risk" on 24th May 2017, organized by SAARC, Gandhinagar.

5. STUDENTS' ACTIVITIES

Chemical Engineering Department

- Nomination for the "Innovative student project-2017" was filed to "Indian National Academy of Engineering" on "Design of Sulphonator" by Durgesh Parmar, M.E. student guided by Prof. M. G. Desai.
- Students of 3rd Semester Bhuva Sanket, Jivani Hardik Secured 1st position and Vasani Chintan and Malani Brijesh secured 3rd position in Chemo- Car in Techfest held at Nirma University.
- Vasu Tada and Pratyush Rana secured 1st position in Chemo- Car and Mehta Kartik, Milin Prajapati, Dave Devanshi and Mesvania Dhara secured 2nd position in Industrial Experience, and Milin Prajapati and Maniar Vishlesh secured 2nd position in Chemology in Techfest held at at Nirma University.
- Maniar Vishlesh and Dave Devanshi secured 2nd position in Chemo-Quiz and Patel Nishant and Mohit Agrawal secured 4th position in Chemo-Car in Techfest held at Silver Oak College,

- Patoliya Himanshu was appreciated by President of India for being active promoter of innovation in GYTI Awards.

Civil Engineering Department

- Paper presented by Ms. Roshni Suchak was considered for special recognition in National Conference held at Sarvajani College of Engineering and Technology, Surat during March 25th to 26th, 2017.

Electronics and Communication Department

- Shrey Shylesh of VIII Sem appeared on National television along with Vyom Vyas and represented LDCE by second consecutive win in the Tata Crucible Campus Quiz on 4th June, 2017.
- Makwana Harshit of VIII Sem got first rank in LD as well as in GTU in EC branch.
- Vandit Gajjar of VII Sem is undergoing courses under International Exchange Program at Kansas University.
- Rana Parth Bharatbhai of V sem has been awarded with certificate of excellence for securing All India Rank- 3 in 2nd year category in the Indian Engineering Olympiad examination.
- Pratiksha Rawat of III Sem got first rank in GTU Spirit "TAEKWONDO" Tournament. For this she got prize for representing GTU at national level on 16th June 2017.
- Rutweek Mehta of Sem VI was the only student of LDCE selected as winner for Advance Student Admission Program, conducted by SP Jain School of Global Business and made an educational trip to SP Jain's Singapore campus during 8th-12th June 2017.

Information Technology Department

- Dharmang Bhavsar and Devam Narkar from VIII Sem. of IT Dept in L.D.C.E were selected as team members for the Ministry of Railways wing of the competition held at Udaipur in the Smart India Hackathon 2017. The team came on 8th position at the hackathon facing strong competition from all over India.
- Hiral Patel, ME 2nd year got best paper award in National Conference on "Advances in Computer Science Engineering & Technology" organized by CE department at LDCE for the paper "Serendipitous Bookmark Recommendation in a social bookmarking system using Behavioral Data Mining" on 6th May, 2017.
- Dinesh Patel, ME 2nd year student has published a paper on "A New Symmetric Key Block Cipher Algorithm with High Avalanche Effect" in National Conference on "Sustainable Computing and Information Technology" 2017 at SCET, Surat.
- Students of ME 2nd year have published papers on different subject in International Journal for Technological Research in Engineering, issue 8, vol 4 in April 2017, as (1) Makwana Bhavesh Patel, on "Ant colony optimization based routing algorithm for mobile ad hoc network: a survey" (2) Anggy Eka Pratiwi, on "Sensor data-based decision making for agriculture" (3) Nutan Usadadiya, on "Minutiae and core point extraction of fingerprint for identification" (4) Zili Mandalia, on "Analysis of diurnal variation of land surface temperature from geostationary satellite insat-3d" (5) Sejal Tandel, on "Techniques for measuring atmospheric CO2 using hyperspectral imaging" (6) Bhoomi Ramanandani, on "A survey on sequence number encoding to mitigate DOS/DDOS attacks"

in cloud environment" (6) Hevisa Shah, on "Hybrid BLRC Algorithm for encryption" (7) Ramesh Selana, on "A Novel approach to ensure confidentiality with data integrity for security in numerical relational database".

- Students of ME 1st year have presented papers at National Conference on Advances in Computer Science Engineering & Technology on 6th May 2017 at LDCE, Ahmedabad (1) Shailja Maniya on "A Survey of Identification of Plant Disease Using Image Processing Techniques and Chameleon Clustering Method" (2) Bhavin Fataniya on "Survey on Route Optimization for Mobile IP" (3) Pranjal Bhatt on "Next Generation Data Storage in DNA" (4) Chirag Ravat, on "Survey on Route Optimization for Mobile IP".

Mechanical Engineering Department

- Pre-final year students visited GIFT CITY Gandhinagar on 23rd June 2017 through ISHRAE Chapter.
- Mechanical students visited Havmor Ice-Cream Plant on 27th May 2017 coordinated by Prof. H.A.Shukla & Mr. Hemant Rathod.



- Prof. R.O.Paliwal, Prof. S.A.Saraswat, and Prof. H.A.Shukla coordinated the Industry visit on 13th April 2017 at Citizen Industries Manufacturing Air handling units for RAC Applications for 100 students of 6th Semester.

Rubber Technology Department

- Industrial visits for the students of M.E.Sem-II & IV at (1) M/s. Panchal Rubber Industry, Bapunagar (2) M/s. Shreenath Rubber Industry, Vatva were arranged on 22nd April and 7th May 2017 respectively.
- 100% Placement for rubber technology.

Plastic Technology Department

- The students of VIII Sem visited Varmora Plastech, Febrros and Grupo Antilo on 22nd April 2017. Mrs. Stuti R Shah and Mrs. Hetal Shah worked as a faculty coordinators.

Textile Technology Department

- Prof. K.J.Ponda, Prof. R.Z.Ansari and Prof. S.S.Malhotra took the students of B.E.Sem IV for Industrial visit to Ankur Mills Ltd., Ahmedabad on 29th April, 2017.

6. COLLEGE ACTIVITIES

KAIZEN 2K17.

- The institute started felicitating the final year students of B.E. and M.E. from 2015. This year, in consultation with HODs, the institute took initiative to have an Open House, where the final year students of UG and PG were provided a platform to showcase their projects to fellow students, parents, industry people, experts etc. for inspiration and appreciation. It was a two day program which was scheduled on 18th and 19th April, 2017. The

first day was the Open House between 10:30 a.m. to 5 p.m. in which students show their projects in their respective departments to people invited from academics and industry as well as experts. The esteemed experts had interesting interaction with students, gave them valuable suggestions, evaluated the projects and ranked them for prizes. More than 576 projects were showcased all across 14 UG programs and 18 PG disciplines..



- The second day was that of departmental group photo, Prize distribution, a Gala dinner followed by a Musical event. The Group photo session started from 5 p.m. onwards where all the 14 departments along with HOD, faculty members and final year students had framed their memories with principal. The invited dignitaries welcomed with a basil plant with a view of promoting plantation and save environment. Dr. G. P. Vadodaria Principal, LDCE offered the welcome speech and program outline of the event. Principal's speech was followed by the prize distribution. First, second and third rank were announced in all the 14 UG Programs and the students were felicitated with cash prize and certificate. The best project in each of 18 PG Programs was honoured in the same way.



International Yoga Day

- L.D.College of Engineering celebrated 'International Yoga Day' on 21st June 2017. This was the third International Yoga Day celebration at LDCE. All the faculty and staff members enjoyed the day after practice sessions which started a week before. All the departments had organised yoga practice sessions a week before 21st June 2017 following the protocol for the same. Ms. Meena Shevkhani, who has represented yoga at national and international levels, was with us on the day to instruct as well as to enrich us with important information related to each of the 'Asanas'.



- All the faculty members of college attended lecture on "Technology to resolve crisis of country" delivered by Dr. Bijoy Kumar Das on 26th April, 2017 at Aryabhatt hall, LDCE.

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

Sr.No	Title	Faculties	Dept.	Venue	Duration
1	Energy conservation through process intensification	Prof M J Pandya, Prof H S Syed, Prof Y M Gajera	Environment Engineering	Chemical Dept., LDCE, Ahmedabad	01 st – 05 th May 2017
		Prof.A. G. Momin, Prof. Monika K. Vyas Prof. Gaurav N. Sutaria	Mechanical Engineering		
		Prof. R.N.Desai, Prof. S.J.Padhiyar, Prof.G.G. Bhatt	Rubber Technology		
		Prof. Kintu P.Jain, Prof. Hetal C.Shah, Prof. Stuti R.Shah	Plastic Engineering		
		Prof. Gaurang B Buch, Prof. Sajid M. Patel, Prof. Lalji K Kataiya	Electrical Engineering		
		Prof. R.P.Bhatt, Prof. P. B. Shukla Prof. H. N. Pandya, Prof. R. S. Ruperi, Prof. R. K. Kanzariya, Prof. V. V. Gojiya	Chemical Engineering		
2	Data analysis and report writing	Prof. S.J.Padhiyar	Environ Engg.	NITTTR, Bhopal	12 th – 16 th June 2017.
		G.G.Bhatt	Mech. Engg.		
3	Strategic Leadership and Innovatives in changing Environment.	Prof.R.O.Paliwal	Mechanical Engineering	NITTTR, Bhopal	26 th – 30 th June 2017
4	Developing Entrepreneurship skills in Students	Prof.S.A.Saraswat		NITTTR Ahmedabad	26 th – 30 th June 2017
5	Induction Phase : II	Prof.S.J.Patel			10 th -21 th April 2017
6	Induction Phase : I	Prof.K.P.Hirpara		NITTTR- Bhopal	15 th – 26 th May 2017.
7	Advances in Design of Process and Equipment for process Plants	Prof.H.P.Patel, Prof.P.V.Jotaniya		NITTTR Ahmedabad	08 th -19 th May 2017
8	Certificate Course In Disaster Management-II,	Prof.P.K.Shah	Civil Engineering	GIDM, Gandhinagar	1 st April- 5 th May 2017
9	Soft computing techniques in Transportation Engineering	Prof.P.K.Lalwani, Prof.Z.M.Shaikh			1 st -6 th May 2017
10	Application of principles of reliability and risk analysis to various sub-disciplines of Civil Engineering	Dr. P.J.Gundalya Prof.R.N.Shukla Prof.V.R.Patel Prof.D.K.Oza Prof.Z.R.Chayya		IIT BHU, Varanasi	29 th May- 10 th June 2017
11	Application of Space Technology in Monitoring and Managing Risks at SAARC Disaster Management Centre (IU).	Prof.(Dr.)P.J.Gundalya		Gandhinagar, Gujarat, India	24 th May- 26 th June 2017
12	Consumer Awareness program	Dr. C D Upadhyay	Electrical Engineering	CERC, Ahmedabad	29 th April, 2017
13	Cyber Physical Systems	Dr. C D Upadhyay	Electrical Engineering	DA-IICT, Gandhinagar	8 th - 2 nd April, 2017
14	Lab view software	Prof J B Pujara		NITTTR, Bhopal	01 st – 05 th May 2017
15	Developing Entrepreneurship skills in students	Prof. M R Vasavada		NITTTR, Ahmedabad	26 th -30 th June 2017
16	Certificate Course in Disaster Management	Prof. A.G.Hansora & Prof. C.D.Patel	Applied Mechanics	GIDM, Gandhinagar	1 st April-5 th May 2017
17	Portfolio supported Assessment for Self Directed Learning	Prof. A J Shah		NITTTR, Ext, Sola	12 th – 16 th June 2017
18	Advances in Building Services	Prof.P.J.Mehta, Prof.D.H.Raval, Prof.K.A.Parmar, Prof.U.K.Patel		NITTTR, Ahmedabad	19 th - 23 rd June 2017
19	Computer Aided Design of Civil Engineering Structures	Prof. P.I.Modi		NITTTR, Ahmedabad	26 th -30 th June 2017
20	Internet of Things: Application and Research perspective.	Dr. Dhaval Parikh	Computer Engineering	LDRP Institute, Gandhinagar	12 th - 16 th June 2017.
21	ISTE approved STTP “English for Technical Teachers”	Dr. Harikrishna Jethva		General Department,	5 th - 9 th June 2017.
22	Tools for Cyber Security: A Laboratory Course”	Dr. Vimal Vaghela		IIT Bombay	22 nd -26 th May, 2017
23	Managerial skills for Technical Teachers & Administrators	Prof. B B Panchal	IT Department	NITTTR, Bhopal	15 th -26 th May 2017
24	Portfolio supported assessment for self directed learning	Prof J S Vithalpara Prof S J Patel		NITTTR, Ahmedabad	12 th -16 th June 2017
25	Labview Software	Prof Bhavesh H Parmar Prof.Utkarsh V Pancholi	Biomedical Department	Nitttr bhopal	01 st – 05 th May 2017
26	English for Technical Teachers	Prof.Utkarsh V Pancholi	Biomedical	LDCE	5 th -9 th June 2017
27	FDP on “ASIC”	Prof. Arun Nandurbarkar	EC Engg.	E-infochip	12 th - 16 th May'17
28	“Analog and Digital Circuit Design using Multisim”	Prof A B Upadhyay		Niitr, bhopal	19 th - 23 rd May'17

8. M.E. DESSERTATION

No	Title	Student	Guide
APPLIED MECHANICS			
01	Influence of Reinforced Stone Column on Load – Settlement Characteristics of Landfill Solid Waste	Parmeshwar Prasad	Prof.A.R. Gandhi Dr.M.V. Shah
02	Model Study on Circular Footing Resting on Geotextile Reinforced Silty Sand Beds	Jignesh Raval	Prof.A.R. Gandhi Dr.M.V. Shah
03	Analysis, Design and Cost Comparison of Cylindrical Oil Storage Steel Tank with Emphasis on Seismic Design.	Karan V. Rupani	Prof D R Tarachandani
04	Parametric Study of Hollow Core Slab with Light Weight Concrete.	Topiwala Zaid M.	Prof D R Tarachandani
05	Analysis Of Effect Of Particle Fines On Subgrade Strength Using Correlation between CBR and DCPT	Rima C. Dave	Prof. P. J. Mehta
06	Effect of Rise in Water table on Bearing capacity of Rectangular footing Resting on Geotextile Reinforced Silty Sand	Ankita Nakrani	Prof. P. J. Mehta
07	Parametric study of Sub-structure for Multi-storied building for varying Structural system and different sub-soil condition	Rajatkumar B Patel	Prof P G Patel
08	Comparative study of 400 kV M/C suspension and tension tower with Rectangular and Square Base	Viral R Kapadiya	Prof P G Patel
09	Subgrade Reaction and Load Settlement Characteristic of Alluvial Soil Deposits by Plate Load Test	Darshan Chhatbar	Dr.M.V. Shah
10	Compressibility and Shear Strength of Dumped MSW with and without Leachate	Jerome Jose	Dr.M.V. Shah
11	Strength Characteristics of Jointed Rock Matrixes with Circular Opening Under Triaxial Compression	Joshi Ravi	Dr.M.V. Shah
12	Evaluation of Physical and Mechanical Property of Brick by incorporating Industrial Waste Like Grog.	Charvi S. Patel	Prof. Poonam I. Modi
13	Strength Characteristics of Concrete Masonry Block using Grog and Quarry Dust as replacement of Sand.	Vivek Khatri J.	Prof. Poonam I. Modi
14	Determination of Property of Hollow Concrete Block using Water Treatment Sludge	Jinal N. Panchal	Prof. Poonam I. Modi
15	Sequential Construction Analysis of Multistoried Buildings	Aditi Parekh	Prof. D.H.Raval
16	Comparative Study of Load Carrying Capacity of Precast RCC Slab with Conventional Concrete and Micropozz Based Geopolymer Concrete Along with GGBS – An Experimental Approach	Vivek A. Patva	Prof. B. R. Patel
17	Damage Detection, Categorization and Retrofitting Solution to Retain the Structure of Nazarbaug Palace: A Case Study	Tanmay A. Agrawal	Dr. V. S. Purani
18	Rapidly Deployable Disaster Relief Shelter	Tushar A. Jadav	Prof. A. G. Hansora
19	Experimental Study of Load Carrying Capacity of Precast RCC Slab Panel with the use of Pond Ash and Quarry Dust	Nirav R. Patel	Prof. A. G. Hansora
20	Behaviour of cold form built up sections Under bending using various stiffener pattern.	Seema Mansuri	Prof. K. A. Parmar
21	Shear Deformation of Seismic Force Resisting System considering different Aspect ratio	Aakanksha Singh	Prof. K. A. Parmar
22	Influence of Accelerator on Electro-Osmosis Technique	Savaliya Riddhi	Prof. Alpa J Shah
23	Comparison of Textile and Dye Industrial Waste on Strength of Clayey Soil	Joshi Vrunda	Prof. Alpa J Shah
24	Stabilization of Clayey Soil using Fly Ash Based Geopolymer	Pandya Rishi	Prof. Alpa J Shah
ENVIRONMENT ENGINEERING DEPARTMENT			
01	Phytoremediation of textile dyeing unit effluent using aquatic macrophyte.	Akruti Patel	Prof Y M Gajera
02	Experimental study to evaluate composting efficiency using Mechanized and Non Mechanized composting Tumbler.	Belim Iqbalbhai M.	Prof Y M Gajera
03	Biomonitoring of Sabarmati Riverfront Stretch Using Benthic Macroinvertebrates for Water Quality Assessment	Dabhi Niravkumar K.	Prof M J Pandya
04	Determination of Bowen Ratio and its effect on AERMOD model predictions	Dharmin J.Gada	Prof H S Syed
05	Removal of Cyanide from Electroplating Baths at ISRO, Ahmedabad	Limaye Vanashri	Prof M J Pandya
06	Treatability studies on in situ chemical oxidation for the treatment and removal of color from groundwater	Manasvini Agarwal	Prof H S Syed
07	Optimization of the Treatment of Dye Intermediates Wastewater by Hydrodynamic Cavitation and its Combinations.	Mehta Bhasha C.	Prof H S Syed
08	To Determine the Collection Efficiency of Wet Cyclone Separator for Sub-micron Particles and its Corresponding Energy Requirement	Merchant Darrell S.	Prof H S Syed
09	Fat degradation of dairy industry effluent using anaerobic treatment	Mistry Falguni P.	Prof M J Pandya
10	Resource Optimization of industry and upgradation of effluent treatment plant	Morekar Dhruti L.	Prof H S Syed
11	Study of Indoor Air Quality of Mobile and Stationary indoors of Ahmedabad City using Sensor Based Devices.	Vohra Mohammad Kalimuddin M.	Prof M J Pandya
12	Optimization of Hydraulic Retention Time Using Membrane Bioreactor For Treatment of Municipal Wastewater	Vora Vishani J.	Prof M J Pandya
MECHANICAL-IC/AUTO			
01	Modeling of Biomass Gasification: Kinetic Approach	Alkesh G Parikh	Prof: V R Patel
02	Effect of hydroxy (H ₂ & O ₂) gas addition on gasoline engine performance and emissions with variation in spark timing.	Babariya Sagar J.	Prof.: R J Jani
03	Experimental Investigation on Performance of Single Cylinder HCCI Engine Using Biodiesel Mixture	Mit N Patel	Prof: S N Patel
04	Effect of hydroxy (H ₂ & O ₂) gas addition on gasoline engine performance and emissions with variation in compression ratio.	Patel Shaishav	Prof.: R J Jani

05	Analytical and experimental investigation on engine waste heat recovery for utilization in food delivery vehicle.	Pathak Umang R.	Prof.: D U Panchal
06	Experimental Investigation of effect of CNG injection on emission of bi fuel HCCI engine fueled with diesel & CNG	Vagadiya Sagar.	Prof: S. K. Dabhi
MECHANICAL - CAD/CAM			
01	Design of extension vacuum chamber for sample replacement in outgassing measurement system.	Patel vishal t.	Prof M M Makwana
02	Design of DNB beam source main post insulator with -100kv electrical isolation with vacuum vessel.	Bhalodiya krupa m.	Prof K G Dave
03	Study of parameters on aluminum silicon carbide MMC by EDM.	Chauhan chirayu y.	Prof S P Shah
04	Design and analysis of heavy duty vehicle chassis through FEM software.	Divyanshu sharma	Prof Y D Vora
05	Experiment investigation of cutting parameters to check machinability of HARDOX 500 for hard turning on CNC.	Fumakiya devang v.	Prof D R Shah
06	Parameters optimization of FDM process by using TLBO algorithm.	Ghetiya maulik k.	Prof B K Patel
07	Design, analysis and modification of single drop down bed type chassis through CAD/CAE tools.	Avnish koshti	Prof Y D Vora
08	Design and analysis of let-off mechanism in shuttle loom.	Panchal keyur m.	Prof U A Patel
09	Experimental investigation of near dry wire EDM using H13 material.	Patel keyurkumar	Prof B C Khatri
MECHANICAL- CRYOGENIC			
01	CFD Analysis of finned type heat exchanger for helium liquefaction plant	Arpitkumar patel	Dr. S M Mehta
02	Design, fe analysis and testing philosophy of the cryoline	Piyush devani	Prof R O Paliwal
03	Design and thermal analysis of air separation system using rectification column	Harsh kandoria	Prof S A Saraswat
04	Mumerical modeling and simulation of cryosurgery by cryoprobe	Deep Jani	Prof H A Shukla
05	Design and analysis for sizing and layout of piping and valve for the dual bed 80k purifier of helium plant	Jaydeep ponkiya	Dr. S M Mehta
06	Experimental investigation on coiled finned heat exchanger for helium lequefaction plant	Patel smit s	Dr. S M Mehta
07	Cfd analysis of two stage gifford macmohan cryocooler at compact 2 k temp	Rathod nikul	Prof R O Paliwal
08	Experimental study of heat transfer between two cryogens	Rathod tejaskumar	Dr. S M Mehta
09	Cfd analysis of two phase flow of ln2 helical pipes	Riddhesh patel	Prof S A Saraswat
10	Design and analysis of pump for closed loop circulation of supercritical helium operating at 5 K.	Mitesh b daxini	Dr. S M Mehta
CIVIL			
1	Development of Lowry Model for Land Use Transportation Interaction for West Ahmadabad City	Mayur Bariya	Prof.R.N.Shukla
2	Traffic Signal Coordination in Two Way Direction Using VISSIM at CG Road Ahmedabad	Jayveersinh Chudasama	Prof.V.R.Patel
3	Development of truck trip generation model using regression analysis and category analysis	Meet Oza	Prof.V.R.Patel
4	Development of Micro-Simulation Model for Saturation flow at Signalized Intersection of Ahmedabad City	Neel Chauhan	Prof.N.G.Raval
5	economic evaluation of proposed flyover across a national highway: A case study of pakwan cross road	Roshni Suchak	Prof.S.C.Rathod
6	Development of model for Passenger Car Unit (PCU) for Heterogeneous traffic condition	Vihar Trivedi	Dr. P.J.Gundaliya
7	Estimation and development of model for capacity of urban arterial road	Ashish Prajapati	Prof. N.G.Raval
8	Structural Evaluation of Pavement using Falling Weight Deflectometer	Chintan Patel	Prof.R.N.Shukla
9	Effect of bus rapid transit system on urban corridor	Divyesh Patel	Prof.R.N.Shukla
10	Effects of speed breakers on a traffic performance	Mitul Patel	Dr. P.J.Gundaliya
11	Development of capacity model for work zones of urban area	Nilkanth Patel	Prof.N.G.Raval
12	Optimization of Bus Driver Scheduling: A Case Study of AMTS Lal darwaja Depot, Ahmedabad	Sunny Patel	Dr.P.J.Gundaliya
13	A Study on Effect of Low Density Poly-Ethylene (LDPE) on Cement Concrete in Rigid Pavement	Parth Shah	Prof.N.G.Raval
14	Trip Distribution using of Gravity model: A case Study of Morbi City	Toral Vyas	Prof.R.N.Shukla
15	Optimization of scheduling of selected BRTS routes of Ahmedabad city	Sandip Patel	Dr.P.J.Gundaliya
16	Capacity analysis of signalized intersection using micro-simulation: Case study: Income tax intersection	Gary Cosma Matovu	Prof.R.N.Shukla
17	Development of Pedestrian accident prediction model for urban arterial roads	Murhura Wycliffe	Prof.S.C.Rathod
18	Low Flow Analysis in Kim River Basin	Hitesh H Ahir	Dr.N.P.Singh
19	Assessment of ground water hazard near coastal area of Gujarat	Twinkal Jayantilal Kanani	Prof.A.M.Malek
20	Flood forecasting using adaptive Neuro-fuzzy Inference system	Bhavik Vitthalbhai Amin	Dr.R.B.Khasiya
21	Comparative analysis and performance evaluation of water distribution network	Sujitkumar Mithalal Patel	Prof.N.J.Dalal
22	Hydrological Water Balance and River Flow Simulation integrating satellite Inputs over lower Tapi river basin	Swati S. Patel	Dr. M.B.Dholkiya
23	Assessment of hydrodynamic changes due to Kalpasar project within the Gulf of Khambhat, A use of numerical simulation	Vivek B. Vasani	Dr. M.B.Dholkiya
24	To analyze suspended load in Kim river basin using HEC-RAS and Validation of existing suspended load equation	Anilkumar A. Desai	Dr. N.P.Singh
25	Ground water vulnerability studies at north Gujarat by using GIS	Badal N.Kadiya	Prof.R.B.Khasiya
26	Urban Stormwater management in Gandhinagar city using geo-informatics	Kandarp Dave	Dr. M.B.Dholkiya

27	Artificial Recharging of groundwater: A case study of L.D. College of Engineering	Jaldhi Mehta	Dr. G.P.Vadodariya
28	Snowmelt Estimation based on Energy Balance approach by using RS & GIS Techniques	Mehta Pankti K.	Dr. N.P.Singh
29	To Study Morphological Changes in Mahi river Using GIS and Remote Sensing	Rahul R.Panchal	Prof.R.M.Jadav
30	Identification & Extraction of wetland features using RS & GIS	Jayshree R Pandor	Prof.A.M.Malek
31	Strategic planning of water resources management using GEP spatial techniques	Devayani J.Patel	Prof.N.J.Dalal
32	Assessment of groundwater recharge through canal	Rutvik H.Oza	Prof.R.M.Jadav
33	Detecting surface deformation due to ground water extraction using InSAR	Patel Dishaben .	Dr. M.S.Gadhavi
34	Effect of Base Level change on Drainage Systems	Jayesh P.Sinha	Dr. M.B.Dholkiya
35	Hydrological Modeling of Bhadar watershed using SWAT Tool	Jaimin L. Patel	Dr. N.P.Singh
36	Impact of Sea water intrusion of costal area in Gujarat by using GIS	JigneshK.Damor	Dr. R.B.Khasiya
37	Water quality analysis of Mahi basin using neural network and ANFIS	Nisharg I.Patel	Dr. M.B.Dholkiya
38	Development of Model using Lean construction Technique for minimizing construction Waste	Parth A Raval	Prof D.K.Oza
Information and Communication Technology Department			
1	Improving Quality of Service in MANET Using Ant Colony Based Multipath Routing Algorithm	Patel bhavesh k.	Prof H.M. Diwanji
2	improving decision making of sensor data using Adaptive Neuro-Fuzzy Inference System	Anggy Eka P.	Prof H.M. Diwanji
3	A Novel Cryptography Technique for an Encryption and Decryption	Patel Dinesh V.	Prof B.B. Panchal
4	Optimization Data Interference, Corruption and eavesdropping to an NFC security using Diffie Hellman algorithm	Darshan M. Parmar	Prof B.B. Panchal
5	Bookmark Recommendations in a Social Bookmarking System Using Behavioral Data Mining and Serendipitous Approach	Patel Hiralben R.	Prof S.A. Solanki
6	Prevention Mechanism for ARP Poisoning against MITM Attack	Chaudhari Dhruv	Prof J.S. Vithalpura
7	Fingerprint minutiae extraction for generating secure key	Usadadia NutanP.	Prof S.J.Patel
8	Analysis of land surface temperature diurnal parameter from geostationary satellite	Zili T. Mandalia	Prof M.K. Panchal
9	Radiative Transfer Modeling of Atmospheric Co2 using Hyperspectral imaging	Tandel Sejal N.	Prof A.J.Patel
10	Hybrid blrc algorithm for encryption	Hevisa G. Shah	Prof R.R.Patel
11	A Novel Approach to ensure Confidentiality with Data Integrity for Security in Numerical Relational Database	Selana Rameshbhai S.	Prof A R Patel
12	Applying sequence number encoding and hop count filtering to mitigate DOS/DDOS attacks in cloud environment.	Bhoomi Sureshbhai R.	Prof M.B.Patel
Electronics and Communication Department			
1	Optical character recognition for gujarati language	Trivedi sumit g.	Dr. Arun nandurbarkar
2	Content based image retrieval for medical application	Patel dhruvisha j.	Dr. Arun nandurbarkar
3	Resolution enhancement of medical images using super resolution technique	Prajapati dhruviben	Kinjal r sheth
4	Peak to average power ratio (papr) reduction techniques in ofdm system	Okello kenneth	Prof. Usha neelakantan
5	Design and development of automatic gain control for radiometer system	Makwana foram r.	Dr. Arun nandurbarkar
6	Design of subharmonic mixer for submillimeter wave receiver development	Menon rahul R.	Prof.p.j.brahmbhatt
7	Design of frequency multiplier for submillimeter wave lo development	Prajapati dhruvi d.	Prof. Usha neelakantan
8	Mimo in optical communication	Panchal pratik i.	Prof. Mihir V. Shah
9	Text independent speaker verification using low level and high level features	Karagthala jasmine j.	Prof.p.j.brahmbhatt
10	Resolution enhancement of medical images using super resolution technique	Prajapati dhruvi g.	Kinjal r sheth
11	Analysis of signal processing techniques for 5g with reference to modulation formats	Parashar pramiti y.	Prof. Sima K Gonsai
12	To enhance performance of noise reduction algorithms in speech processing	Soni brijesh a.	Prof. Kinaar Vaghela
13	Matched filter based spectrum sensing in cognitive radio	Bhadja akshay o.	Shilpa rana
14	Sidelobe suppression technique for multi carrier transmission	Kavaiya sagar d	Prof.usha neelakantan
15	To enhance performance of noise reduction algorithms in speech processing	Soni brijesh a.	Prof. Kinaar Vaghela
16	The techniques for carrier frequency offset estimation in ofdm system	Bhaveshree a patel	Prof.shilpa rana
17	Security against morphed speech based on speaker verification system	Sharma priya a.	Prof. Kinaar Vaghela
18	Performance evaluation of massive mimo	Chauhan nikhil r.	Kiran parmar
19	Miniaturization of micro strip patch antenna for mobile application	Rakholiya amit a.	Prof Namrata Langhnoja
20	Comparison and performance analysis of digital circuits using modified gate diffusion input technique	Divya soni	Prof. Mihir v. Shah
21	Design of multiband microstrip patch antenna for wireless application	Dungrani akash a.	Shilpa rana
22	Analysis of precoding algorithms and pilot contamination problem for massive mimo system	Omer mohamed abdelrhman a.	Dr. Kiran R. Parmar
ME Rubber Technology			
1	Blend of modified starch with pla	Bhatt heta m	Prof. R.n.desai

Newsletter Committee Members

Prof. (Dr.) K.G. Dave, Prof. A.G. Momin, Prof. D. K. Patel, Dr. A. B. Dharankar, Prof. S.S. Gosai