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**Dr. G. P. Vadodaria**

Principal

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Prof. R. N. Desai  
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Prof. R. J. Jani  
Dr. H. M. Diwanji  
Prof. G. H. Bun  
Prof. B.G..Basantani  
Prof. K. B. Bhoyaniya

#### NEWS LETTER

Quarterly Magazine

Vol. - 14, Issue - 2

April - June , 2018

#### Book-Post

To, \_\_\_\_\_  
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#### 1. FROM THE DESK OF THE PRINCIPAL



Principal, Dr. G. P. Vadodaria

Dear students and faculty members

This year, the third episode of KAIZEN 2018 was organized where, our B.E and M.E final year projects were displayed and best of them were rewarded. We also bid farewell to the final year students with a lot of love and best wishes. It was a privilege to have guests like Dr.Navin Sheth, Hon. Vice Chancellor GTU, Shri Dillip Rana, IAS/LDCE Alumni, and Shri N G Patel, Chairman, Airtel to encourage the students. Remembering the father of Indian Constitution, 125<sup>th</sup> Birth Anniversary of Bharat Ratna Dr. Babasaheb Bhimrao Ambedkar was celebrated on 14<sup>th</sup> April, 2018. As part of World Environmental Day celebrations, on 6<sup>th</sup> June 2018, different events were arranged with great enthusiasm. With great health we can perform better and develop more efficiency, hence we enjoyed doing Yoga on International Yoga day, 21<sup>st</sup> June 2018. With the permission of DTE and ISTE as well as the support of different organisations like e-infochips, NITTTR, ISRO among others, the institute organised six STTPs in different fields of Engineering and Technology, during summer vacation, in the last week of May and First week of June 2018. More than 100 participants took active part in all the STTPs. Faculties of Engineering colleges and polytechnics took the benefit of these training programs for self-development. This was a benchmark in itself.

I hope we keep on creating such benchmarks and doing our best for the institute.

Dr. G P Vadodaria  
30<sup>th</sup> June 2018

## 2. PAPERS PRESENTED/PUBLISHED

### Applied Mechanics Department

- Dr.M.V. Shah, Parth Shah and Prof.A.R. Gandhi published research paper title “Strengthening Low Plastic Soils Using Microfine Cement Through Deep Mixing Methodology” in 'Book of Springer Series' as Proceedings of International Symposium in Transportation Geotechnics (ISGTI 2018) held during 7<sup>th</sup> and 8<sup>th</sup> April, 2018 at IIT- Delhi, jointly organized by ISSMGE, IGS & IIT Delhi.
- Dr.M.V. Shah and Abhijit Brambhatt, have Published research paper title, “Particle Characterization and Flow Characteristics of in-situ Municipal Solid Waste (MSW)”, Proceedings of Micro to Macro Mathematical Modelling in Soil Mechanics, 29th -1st June 2018, organized by University Mediterranea of Reggio Calabria, Italy. (Paper Id: 015).
- Dr.M.V. Shah, Kinjal Gajjar, Prof.A.J. Shah have Published research paper title (1) “Model Study on RE Wall Using Municipal Solid Waste as Backfill Material” in 'Book of Springer Series' as Proceedings of International Symposium in Transportation Geotechnics (ISGTI 2018) held during 7th and 8th April, 2018 at IIT- Delhi, Jpointly Organized by ISSMGE, IGS & IIT Delhi. (2) “Assessment of Municipal Solid Waste as Backfill Material in Reinforced Earth Wall” in Proceedings of First International Conference on Innovations in Infrastructure published by Springer, Advances in Intelligent Systems and Computing ISSN 2194-5357), 18-19, May 2018, IITRAM, Ahmedabad, India.
- Dr.M.V. Shah, Nirav Rathod & Prof. A.R. Gandhi Published research paper title “Compressibility Characteristics of Soft Clay Using Large Model Consolidation Test through Vertical Geodrain” in Proceedings of 5th International Conf on Road and Rail Infrastructure, 17-19th May 2018, Organized by University of Zagreb, Zadar, Croatia. Editors Stjepan Lakusic, ISSN:1848-9850, ISBN: 978-953-8168-25-3, pp.267-276.
- Dr.R.K.Gajjar, Prof.Poonam I.Modi & Smeet R Desai (PG student) have published research papers entitled (1) “Evaluation of Bond mechanism of Hardened and Plastic Concrete using conventional and improved techniques” in International Research Journal of Engineering and Technology, Vol. 05, Issue 04-April'18. (2) “Evaluation of Bond Strength of Old and Fresh Concrete using Conventional and New Method” in International Journal for Scientific Research & Development, Vol-6, Issue 02,2018, ISSN (online) : 2321-0613.
- Prof. Poonam I. Modi & Devang G. Dangodara ( PG student), have published research papers entitled (1) “Review Paper on Partial Replacement of Fine aggregate by Industrial or Mine waste in concrete”, in International Research Journal of Engineering and Technology, Vol. 05, Issue 04-April'18. (2) “Experimental Investigation on Partial Replacement of Fine aggregate Sandstone Dust in concrete”, in International Journal for Scientific Research & Development, Vol-6, Issue 02,2018.
- Prof. Chintan. D. Patel, Prof. Bansal. R. Patel & Vipul N. Tailor (PG Student), have published research papers entitled (1) “Experimental Study of High Performance Concrete Using Portland Pozzolana Cement with Silica Fume and Replacing Natural River Sand with Quarry Dust”, in International Research Journal of Engineering and Technology, Volume: 05 Issue: 04 (Apr-2018), e-ISSN: 2395-0056. (2) “Review Paper on Experimental Study of High Performance by Replacing Cement and Natural River Sand with Industrial Waste and By-Products”, in International Journal for Scientific Research & Development, Vol-6, Issue 02,2018.
- Prof. Ashwin G. Hansora, Prof. Bansal. R. Patel & Bhargav Jinjala (PG Student), have published research papers entitled (1) “Evaluation of Compressive Strength of RCC Column Strengthened using Ferrocement” in International Journal for Research in Applied Science & Engineering Technology, Volume 6, Issue IV, April 2018, ISSN: 2321-9653. (2) “Evaluation of Compressive Strength of RCC Column Strengthened using Ferrocement with Different Mesh Pattern” in International Journal of Advance Engineering and Research Development, Volume 6, Issue 04, April 2018, e-ISSN (O): 2348-4470.
- Prof. Deepa Raval & Falguni Chaudhari (PG student), published a research paper entitled “Evaluation of Seismic Response of Braced Base Isolated RC Structure” in International Research Journal of Engineering and Technology Volume 5, Issue 4, April 2018. ISSN: 2395-0072.
- Prof. S.P Dave, Prof. Shalini Singh & Vikas J Kushwaha (PG student) published a research paper entitled “Load Settlement Characteristics of Expansive Soils treated with Flyash Columns” , in International Journal of Advance Research and Innovative Ideas in Education, Vol-4, Issue-2-2018.
- Prof. U.K. Patel , Prof. Shalini Singh & Shivani Chaudhari (PG student), published a research paper entitled “Improvement of Strength Characteristics of Bioenzyme- Terrazyme treated Expansive Soil by Gypsum as an additive” in International Journal of Advance Research and Innovative Ideas in Education Vol. 04, Issue -02-2018.
- Dr. Rajul K. Gajjar, Prof. Kamini A. Parmar & Harsh Y. Shah (PG student) have published research papers entitled (1) “ Effect of Cyclonic Importance Factor on Industrial and Post Cyclonic Importance Steel Roof Truss” in International Journal for Scientific Research & Development, Vol-6, Issue 02,2018, ISSN (online) : 2321-0613. (2) “Design Aids For Typified Design of “A” Type Steel Roof Trusses Based On IS 800:2007 and IS 875:2015” in International Research Journal of Engineering and Technology, Vol. 05, Issue 04-April'18.
- Prof. Kamini A. Parmar & Darshan J patel (PG student) have published research papers entitled (1) “ Effect of Wind Load on Industrial Structure and Post Cyclone Important Structure as per IS 875(part 3):2015” in International Journal for Scientific Research & Development, Vol-6, Issue 02,2018, ISSN (online) : 2321-0613. (2) “Handbook for lean to roof type steel truss based on IS 800:2007 and IS 875(part 3):2015” in International Research Journal of Engineering and Technology, Vol. 05, Issue 04-April'18.
- Prof. P G Patel & Akash M Popat (PG Student), have published research papers entitled (1) “Comparative study of Foundation of Suspension Tower with Square and Rectangular base”, in International Journal for



Scientific Research & Development, Vol-6, Issue 02, April 2018, ISSN (online) : 2321-0613 (2) "Parametric Study of Foundation of Tension and Suspension Tower with Square and Rectangular base", in International Research Journal of Engineering and Technology, Vol-6, Issue 04, April 2018.

- Prof. P G Patel & Parmar Nirav Kantibhai (PG Student), have published research papers entitled (1) "Parametric study of soil structure interaction on G+6 storey building for different Soil condition", in International Journal of Advance Engineering and Research Development, Vol-5, Issue 05, May 2018, ISSN (Online): 2348-4470.(2) "Parametric study of soil structure interaction on G+6 and G+16 storey building for different Soil condition", in International Journal of Advance Engineering and Research Development, Vol-5, Issue 05, May 2018.
- Prof. M .V. Shah, Prof. A. J. Shah & Kinjal Gujjar have published research papers entitled (1) "Model Study on RE Wall using Municipal Solid Waste as Backfill Material" International symposium on Geotechnics of Transportation Infrastructure, IIT New Delhi organized by IGS, 7-8 April 18. (2) "Assessment of Municipal Solid Waste as Backfill Material in RE Wall" International Conference on innovations in Infrastructure at IITRAM published by Springer 18-19 May 18.
- Prof. A. J. Shah ,Ankit Advani Prof. A. J. Shah & Ankit Advani, have published research papers entitled (1) "Compaction and Strength Characteristics of GGBS and Cement Stabilized Soil" International Journal of Engineering Research and Advanced Development May 18 (2) "Strength Characteristics of Clayey Soil Stabilized with Lime and GGBF Slag" International Journal of Advance Engineering and Research Development April-2018.(3) "Stabilization of Clayey Soil Using GGBF Slag with Portland Cement and Hydrated Lime" Proc. of 5th Int. Conf on Road and Rail Infrastructure, Zadar, Croatia 17-19 May 18.
- Prof. D R Tarachandani & Chandrakant P. Sharda ( PG student), published research papers entitled (1) "Effect of Organosilane Compound on Workability, Strength and Water Absorption Characteristics of Concrete Mix", in International Journal for Scientific Research & Development, Vol-6, Issue 02, April-2018, ISSN (online) : 2321-0613 (2) "Evaluation of Durability Aspect of Concrete Treated with Organosilane Compound", in International Research Journal of Engineering and Technology, Vol. 05, Issue 04-April'18.

#### **Automobile Engineering Department**

- Prof Rituraj Choubhe, Prof R. J. Jani and Prof Gaurav N Sutaria published a paper on "Hydrogen as an additive in Internal Combustion engines a Review." in International Journal for Research in Engineering Application & Management, ISSN: 2454-9150, Vol-04, Issue-, 2 May 2018, pp 470-472.
- Prof Rituraj Choubhe and Prof R. J. Jani published a research paper on "Experimental investigation of various Spark Plug gap on Four Stroke Single Cylinder S.I. Engine." International Journal of Technical Innovation in Modern Engineering & Science Volume 4, Issue 6, June-2018, e-ISSN: 2455-2585 pp 347-351.

#### **Civil Engineering Department**

- Prof.D.K.Oza, K. H. Joshi and Prof.A.N.Bhavsar has

published paper on "Developing a Fair And Reasonable (FAR) Price Reasonable Lowest Bid Model Using OR Technique" in International Journal of Technical Innovation in Modern Engg. & Science May-2018.

- Prof V M Patel and Vivak J Jethva has presented a paper on "Design and Monitoring of Water Distribution Network by Epanet and Scada Software" International Journal for Scientific Research & Development, April 2018
- Himanshi Gadani and R.N.Shukla has presented a paper on "Ahd:The World Heritage Title and Challenges" in International Conference on "Women in Science & Tech.: Creating Sustainable Career 28-29-30 June 2018.

#### **Computer Engineering Department**

- Prof. Reshma Dayma and Mr. Rahul Purohit (PG Student) have published a paper entitled "An Artificial Neural Network Model for Road Accident Prediction" in International Journal of Scientific Research in Science, Engineering and Technology, Volume 04 Issue 08, May-June 2018.

#### **General Department**

- V A Adhwaryu, Asst. Professor(Physics) presented a poster in a National Conference on Recent Trends in Materials Science 2018, held at The M S University of Baroda, during March 24-25, 2018.

#### **Electronics and Communication Department**

- Under the guidance of Dr. M V Shah 1) Sisodiya Reena (PG Student) has published paper titled "Design of Programmable Prescaler with True Singal -Phase Clock Logic" in the International Journal of Creative Research Thoughts on 14th April 2018, 2) Sisodiya Reena and Chirag Senjaliya (PG Students) have published paper titled "Implementation and Performance Analysis of Divide-by-4/5 Dual Modulus Prescaler" in the International Journal of Scientific Research & Development on 17th April 2018.
- Under the guidance of Prof. K.R Sheth 1) Panchal Vaishali (PG Student) has published paper titled "Design and Simulation of Microwave Sensor for High Power Stray Radiation" in the International Journal for Scientific Research & Development| Vol. 6, Issue 02, 2018 | ISSN (online): 2321-0613 on 16th April 2018. 2) Panchal Vaishali (PG Student) has published paper titled "Simulation and performance analysis of microwave sensor for high power stray radiation" in the International Journal of Creative Research Thoughts ISSN: 2320-2882 on 17th April 2018.
- Senjaliya Chirag (PG Student) has published paper titled "180nm CMOS Process Based L-Band CML to CMOS Converter" under the guidance of Prof. Usha Neelakantan in the International Journal of Advance Research and Innovative Ideas in Education on 19th April 2018.
- Parmar Mit (PG Student) has published paper titled "Performance Analysis of Routing Protocols for 802.11p Including Propagation Models" under the guidance of Prof. Kinnar Vaghela in the International Journal of Advance Research and Innovative Ideas in Education on 1st April 2018.
- Savaliya Nirali (PG Student) has published paper titled "Metamaterial Incorporated Planar Antenna for Improving Parameters" under the guidance of Prof. Arun Nandurbarkar in the International Research Journal of Engineering and Technology on 21st April 2018.

- Rathwa Raju (PG Student) has published paper titled “Compact Wideband Planar Inverted F Antenna for Mobile Communication” under the guidance of Prof. Nirali Kotak in the International Journal of Advance Research and Innovative Ideas in Education on 24th April 2018.
- Tarpara Nikita and Rathwa Raju (PG Students) have published paper titled “Design of Slotted Micro-strip Patch Antenna for 5G applications” under the guidance of Prof. Nirali Kotak in the International Research Journal of Engineering and Technology on 26th April 2018.
- Ankita Chotaliya has published paper titled “Various Schemes of set up for Microwave Photonic Filter and its Application” under the guidance of Prof. Usha Neelakantan. i-Manager's journal on Communication Engineering and Systems on 7th May 2018.

#### **Information Technology Department**

- Panchal Twinkalbaben H has published a paper titled “Literature Review on “Face Recognition Using Principal Component Analysis” in International Journal of Advance Research and Innovative Ideas In Education, Volume 3, Issue 5 2395-4396.
- Prof. Hiteishi Diwanji and Patel Meghababen Kiritbhai has published paper on “Advisory system for predicting production regions for apple and potato” in International Journal for Scientific Research and Development, Volume 4, Issue 4, ISSN: 2321-0613 in April 2018.
- Prof. Manoj Patel and Fataniya Bhavin Harishbhai has published paper on “Dynamic time quantum approach to improve round robin scheduling algorithm in cloud environment.” in International Journal for Scientific Research and Development, Volume 4, Issue 4, ISSN: 2321-0613 in April 2018.
- Prof. Alka J Patel and Suthar Monali Bhupendrabhai has published paper on “A novel approach for authentication of RFID devices” in International Journal for Scientific Research and Development, Volume 4, Issue 4, ISSN: 2321-0613 in April 2018.

#### **Mechanical Engineering Department**

- Prof. P.C. Sheth, Krunal M. Rathod and Prof. Gaurav N. Sutaria published paper on “Experimental Investigation of Reformed EGR on the Performance and Emission of 4 stroke C.I. Engine with palm bio-fuel” in International Journal of Technical Innovation in Modern Engineering & Science Volume 4, Issue 6, June-2018, pp. 533-540
- Prof. Sulay Patel, Ramesh Sapariya, Prof. Gaurav N. Sutaria and Anil Shah published “A review paper on overview of hybrid vehicle and its recent market size of electric vehicle” in International Journal of Advance Engineering and Research Development Volume 5, Issue 4, April-2018, pp. 923-927
- Prof. P.C Sheth, Prof. Gaurav N. Sutaria, Anil Shah, Prof. A G Momin and Prof. M K Vyas published paper on “Combined effect of supercharging and injection pressure on emission characteristics of a diesel engine fueled with palm biodiesel - diesel blend” in International Journal of Advance Engineering and Research Development Volume 5, Issue 4, April-2018, pp. 403-410
- Prof. Gaurav N. Sutaria, Prof. P C Sheth and published paper on “Effect of Supercharging & Injection Pressure on C.I. Engine Performance Characteristic with Palm Biodiesel - Diesel Blend” in International Journal for

Research in Engineering Application & Management Vol-03, Issue-12, March 2018 pp. 83-88

- Prof. Shyam Dabhi, Anil Shah and Prof. Gaurav Sutaria published paper on “effect of preheating of vegetable oils in performance and emission parameters of compression ignition engines - a Review Paper” in International Journal of Technical Innovation in Modern Engineering & Science Volume 4, Issue 6, June-2018, pp. 312-318
- Dr. K G Dave and Gulamhussein Sipai(PG student) published a technical paper titled “Activated Flux Tungsten Inert Gas Welding Process to Improve Penetration in Copper Material” in International Journal of Technical Innovation in Modern Engineering and Science, Vol 04, Issue 05, May 2018.
- Dr. K G Dave and Aman Prasad(PG student) published a technical paper titled “Design and Analysis of Sonotrode for ultrasonic consolidation” in journal of emerging technologies and innovative research.

#### **Rubber Technology**

- A Paper published on “Thermal Conductive and Electrical Insulation of EVA sheet” jointly written by Mr. Paritosh Sharma, Prof.R.N.Desai & Prof.G.G.Bhatt in International Journal of Advance Research and Innovative Ideas in Education, volume-4, Issue: 2-2018, ISSN: 2395-4396.
- A Paper published on “EVA Encapsulation sheet for photovoltaic cell” jointly written by Mr. Paritosh Sharma, Prof. R.N.Desai & Prof. S.J.Padhiyar in International Journal of Creative Research Thoughts, Volume-6, Issue:2-April 2018, ISSN: 2320-2882.

#### **Textile Technology Department**

- Prof. Ashwin Thakkar and Prof. P.M. Mistry published a paper on “Effect of Yarn Structure on Yarn and Fabric Properties Produced Using Elitwist Yarn and TFO – A Comparative Study” in the International Journal for Scientific Research & Development Vol. 6 Issue 2, Apr- 18.
- Prof. Ashwin Thakkar and Prof. D.V.Bihola published a paper on “Application and Assessment of Performance of Natural Mosquito Repellent on Fabric” in the International Journal for Scientific Research & Development Vol. 6 Issue 2, April 2018.

### **3. DEPARTMENTAL ACTIVITIES**

#### **Applied Mechanics Department**

- Visit to ATIRA was arranged for ME Sem-II ( Geo-tech) students along with Prof. Alpa J Shah on 27.4.18 with an aim to demonstrate various experiments for Geosynthetics.



- The Students of B. E. sem.-7 were taken for the first site visit at construction site of Hostel building of LDCE on 30.6.18 accompanied by Prof.A.J.Shah, Prof. D.H.Raval and Prof. B.R.Patel.



- All the faculties of the department had enthusiastically participated in the 4th International Yoga Day on 21st June'18 organized at Civil Lawn. The department later in the day also organized "Tree Plantation drive". Faculty and staff members planted saplings of different plants like Croton, Saragvo( Drumstick tree), Gulmohar, Karen, Tulsi and Karanj.

#### **Automobile Engineering Department**

- A national level event, Eco Green Vehicle challenge was jointly organized by Automobile and Mechanical Department at L.D.College of Engineering on 5-6 April 2018. 13 teams including more than 200 student participants from various Institutes all over India had participated in event. Total prize money of 1.5 lakhs and trophy in various segment were awarded to winning teams.



#### **Civil Engineering Department**

- Civil Engineering Department organized one-week STTP on "Advances in Infrastructure Engineering and Management" during 28 May to 02 June, 2018 in which there were 25 participants out of which 21 were faculty from various academic institutes and 4 PG students.

#### **General Department**

- A DTE and NITTTR approved STTP on "Probability and Statistical Methods for Engineering" was organized by the Department between 28th May 2018 to 01st June 2018 in which 27 faculty members from various Technical Institutions participated. The programme was coordinated by Dr. S. B. Chandak and Dr. Y. R. Sharma, both Assistant Professor in Mathematics, General Department, and Prof. H. C. Patel had been the convener of the STTP.



#### **Electronics and Communication Department**

- The department has established Design Lab funded by GUJCOST to motivate students and faculties for innovative projects.

- The department has organized an expert lecture on "Interview Techniques" for the final and pre-final year students in association with Carrier Launcher.
- Team of around 50 students of BE VI Semester along with Prof. S.K Rana, and Prof. Hardik Tank (ME student) visited Hitachi Hirel Gandhinagar, on 12th April 2018.
- Team of around 50 students of BE VI Semester along with Prof. A.B Nandurbarkar, Prof. Nirali Kotak and Lab Assistant Shri. N.P Patel visited e-Infochips, Ahmedabad on 9th May 2018.
- Department had organized a visit to BSNL RTTC, Ahmedabad on the occasion of World Telecommunication Day on 17th May 2018. 15 students attended the visit. There were expert lectures on Cloud Computing and Internet of Things.
- Department has organized one week STTP on "Advances in VLSI Technology" in association with e-Infochips under ISTE, Ahmedabad during 28th May to 2nd June 2018. There were many eminent speakers from organizations like ISRO, e-infochips, and also Dr. Kazutoshi Wakabayashi, NEC, Japan.
- Dr. Miguel Lopez Benitez professor at Liverpool University delivered an expert lecture on "Evolution towards 5G" for the final year and ME students on 25th June 2018.

#### **Environmental Engineering Department**

- Environmental Engineering Department has organized "Poster making" & "Best Out Of waste" competitions as a part of "World Environmental Day 2018" Celebration on 5<sup>th</sup> June, 2018. Total 50 students participated in these competitions.



#### **Information Technology Engineering Department**

- The Department has successfully organized an AICTE-ISTE approved, DTE and GUJCOST sponsored two week STTP on "Fundamentals And Applications Of Iot, Big Data And Machine Learning" from 28/05/2018 to 08/06/2018 having 31 participants including professors from Degree/Diploma/MCA colleges all across Gujarat, in association with E-Infochips, an Arrow company, a leading global provider of product engineering and semiconductor design services.
- Department has organized an expert talk on PMMS for final year student on 25/06/18 and 27/07/18 delivered by Prof.Mital Panchal which created awareness among students about the PMMS activity.
- An interactive session on "Learning traditional in untraditional way: Learning Algorithm fundas through Problem Solving and Why M.tech?" was taken by Mr. Jay Thakker (Phd Pursuing IIT Kharagpur) on 26/06/18.

#### **Mechanical Engineering Department**

- Autodesk India Pvt Ltd, Bangalore had arranged 3 days faculty development program – 14<sup>th</sup> to 16<sup>th</sup> May 2018 for different colleges on 'AUTODESK FUSION360' SOFTWARE TRAINING in Centre of Excellence –



Siemens. Mr Anand Geethagovindan and Mr Badari Huriyur had explained 2D & 3D drafting, assembling, design analysis and simulation in detail with on hand practices. About 12 faculties were trained. Prof. Y. D. Vora, COE coordinator has coordinated this FDP program. Prof G P Vadodaria , Principal and Prof G H Upadhyay – HOD Mech have supported a lot to make the program successful.



- DDIT, Nadiad PG CAD/CAM students had visited Centre of Excellence – Siemens on 21/04/2018 and seen various COE Siemens lab. M/s Designtech trainers had explained about utilities of various lab in their subjects as well as dissertation work. Prof. Y. D. Vora, COE coordinator has coordinated this visit.
- COE – Siemens revenue generation: During the last 4 months Centre of Excellence – Siemens has generated Rs 55000/- by arranging various training programs of students & RPT consultancy. Prof. Y. D. Vora and Prof S S Pathan-COE coordinator and M/s Designtech trainers had put their hard efforts for this work.
- A two week STTP on “Innovation and Advancement in Conventional Industrial Welding Practices” was held at Centre of Excellence – Welding, LDCE during 28<sup>th</sup> May to 8<sup>th</sup> June 2018. 27 participants, all faculty members from Government engineering colleges and government polytechnics, participated in the STTP. All of the participants were from Mechanical Engineering field from different institutions across Gujarat



### **Plastic Technology**

- Netafim Industries came for placement on 23rd April 2018. Five students of the Final Sem got placement at the Baroda plant.
- Pedagogy meeting with Mr. Mrunal Sanghvi and Mr. Gopal Desai from Indian Plastics Institute regarding arrangement of Industrial visits and expert lectures were arranged on 20th June 2018.

### **Rubber Technology**

- An expert Lecture was organized for B.E. Sem VIII Students on “Importance of Mutual Funds and Life Insurance Schemes” by Mr. Vishwesh Shetty, Insurance & Financial Advisor on 17th May, 2018.
- An expert Lecture series was organized for B.E. Sem IV Students on “Importance of Nano Fillers in Rubber Compounding” by Mr. Vinay Pandey, Business Development-Technical at Ami polymer Pvt. Ltd. during April, 2018.

- An expert Lecture series was organized for B.E. Sem VIII Students on “New Vulcanization Techniques” by Mr. Ronak Panchal, MD of Panchal Rubber Industry, during month of April, 2018.
- An expert Lecture series was organized for M.E. Sem II Students on “Simulation of Extruder” by Prof. N M Patel during April-May, 2018.
- An Industrial visit of (1) M/s. Pravin Rubbers & Engineer works, Bapunagar for the students of M.E. Sem II on 5th May, 2018. (2) M/s. Universal Colorant, Aslali for the students of B.E. Sem VI on 7th April, 2018 (3) M/s. Parth Rubber Tech Pvt. Ltd., Santej for the students of M.E. Sem II on 21st April, 2018 was arranged.
- 100% Placement achieved in B.E. & M.E. 2018.

## **4. FACULTY ACTIVITIES**

### **Automobile Engineering Department**

- Dr. G.H. Upadhyay, Prof. R.J. Jani, Prof. M.A. Shaikh, Prof. D.U. Panchal Prof. S.N. Patel and Prof. J.P. Vasani coordinated EGVC Event organized jointly by Automobile and Mech. Department on 5-6 April 2018.

### **Chemical Engineering Department**

- Dr. Sachin Parikh delivered expert lecture on “Types of wastewater treatment methods” and “Description of recent trends in operation and maintenance of APC device and its impact on CETP/ETP operation” at training program resource person organized by Centre for Environment Education on 19-21 June, 2018.
- Dr. Sachin Parikh won 3rd position in Male-Veteran category at Ahmedabad Bicycling Championship organized by Ahd Bicycling club on 17th June, 2018.
- Prof. Pratik B. Patel and Prof. Nikita J. Ambegaonkar joined department as Assistant Professor through GPSC.

### **Civil Engineering Department**

- Dr. P.J. Gundaliya has delivered an expert lecture at one day training “Road Safety Audit “for R & B Staff on the topic “Planning and design for road safety” at R & B Staff Training College, Gandhinagar on 20th June 2018.
- Prof. R.N. Shukla has delivered an expert lecture at one day training “Road Safety Audit “for R & B Staff on the topic “Implementation of curve and junction improvement” at R & B Staff Training College, G’nagar on 20th June 2018.
- Prof. J.P. Modi, Prof. C.N. Bhavsar, Prof. P.K. Lalwani and Prof. H.H. Jariwala along with 115 students of B.E Sem V had visited Kotarpur Water Treatment Plant on 30th June 2018.



### **Computer Engineering Department**

- Media has covered valuable feedback and opinion of Prof. D.A. Parikh and Dr. Hiteshi Diwanji, HoD IT Department on Computer/IT Engineering trends. It will be helpful to society at large.

### **Electronics and Communication Department**

- Prof. Usha Neelakantan was invited as an expert member



for the review committee for promotion of engineers at ISRO on 26th June 2018.

- Prof. Usha Neelakantan was felicitated at “2nd International Conference Women in Science and Technology Creating Sustainable Career” in appreciation for Rendering Service as Session Chair at Birla Vishvakarma Mahavidyalaya, Vidyanagar on 29th June 2018.
- Dr. Mihir Shah was invited as a jury member in National Hardware Hackathon conducted by IISc Bangalore from 18th June to 20th June 2018.
- Dr. Mihir Shah being SSIP coordinator (Gujarat) coordinated the Hackathon winners meet organized at Swarnim Sankul 1, Sabarmati hall in the presence of honorable Chief Minister and education minister on 16th May 2018.
- Dr. Mihir Shah coordinated the SSIP hub inauguration at KCG on 17th May 2018. The hub was inaugurated by honorable education minister and more than 200 startup and innovators attended the startup meet.
- Prof. Usha Neelakantan was the convener, Dr. A.B Nandurbarkar was the coordinator and Prof. S.K Gonsai was the co-coordinator for the one week STTP on “Advances in VLSI Technology” conducted at the department from 28th May to 2nd June.
- Dr. B.S Sedani and Dr. N.A Kotak have presented paper titled “Transition from 4G to 5G Technology: High Speed Mobile Communication Perspectives” at International Conference on Recent Developments in Science, Engineering, Management and humanities on 14th April at Institution of Engineers, Mumbai. They were also awarded best paper of conference.
- Dr. B.S Sedani's article titled “5 G Technology: Health issues” got published in Gujarati newspaper.
- Dr. Mihir Shah, Prof. P.P Prajapati, and Prof. S.L Bhavard have successfully completed National Himalayan trekking to Chandrakhani Pass (height of 12000 ft) from 27th May to 5th June 2018

#### **Information Technology Department**

- Dr. Mehul C. Parikh, Asso. Professor, has delivered a talk on “Image processing using machine learning” in two week STTP on “Fundamentals and Applications of IOT, Big data and Machine Learning” on 5<sup>th</sup> June, 2018.
- Dr. Chirag S Thaker, Asst. Professor, has delivered a talk on “the fundamentals of IOT and Bigdata in modern world” in two week STTP on “Fundamentals and Applications of IOT, Big data and Machine Learning” on 28<sup>th</sup> May, 2018.

#### **Mechanical Engineering Department**

- Prof. G. N.Sutaria has completed M.E Dissertation on topic “Effect of Supercharging and Injection Pressure on Performance, Emission and Combustion of 4 - stroke Single Cylinder CI Engine using palm oil bio diesel - diesel blend” under guidance of Prof. P.C Sheth
- Prof.Samir B.Shah has attended a seminar on Additive manufacturing technology and its application at IIT-RAM, Ahmedabad on 13-14 April, 2018.

- Dr.G.H.Upadhyay, Dr.S.M.Mehta and Prof.H.A.Shukla has arranged lecture on “Practical Heat Load Calculations” of Mr. Sunil Bhatia through ISHRAE Chapter on 5<sup>th</sup> April, 2018.

#### **Plastic Technology**

- Prof. B.G.Basantani had a meeting with Mr. Nitin Pandya, General Manager (Operations) from Prasad group. He suggested topics for expert lectures related to auxiliary equipments used in plastic industry and also welcomed students for plant visit.

#### **Rubber Technology**

- Prof. R.N.Desai has arranged the Pedagogy meetings with (1) Mr.Darshan Shah, M.D of Rubber Concept Industry for “Identify the Reverse Engineering Techniques in Rubber Product” on 10th May 2018 (2) Mr. Atul Shah, M.D of Pioneer Rubber Industry for “Green Technology and Sustainable Environment” on 14th May 2018. (3) Mr. Prakash Patel, MD of Agile Rubber Products for “New Development in the sector of Thermoplastic Elastomers & Blends” on 16th May, 2018. Prof. B.D.Patel, Prof.S.J.Padhiyar, Prof. R.Y.Modan, Prof. G.G.Bhatt & Prof. P.N.Chavda attended the meeting.

### **5. STUDENTS' ACTIVITIES**

#### **Automobile Engineering Department**

- Team GTU Motorsports secured 1<sup>st</sup> position in Endurance race and overall 2<sup>nd</sup> Position in Supra 2018 at Delhi in 11 to 16 June, 2018. Team was awarded with Rs. 30,000 and Rs. 1,00,000 for respective rankings.



#### **Chemical Engineering**

- Students of 7th semester have attended one day workshop on “Implementation of Hazardous waste (M and TBM) rules 2016”
- Students of 7th semester took internship in various industries like IFFCO, TATA chemicals,

#### **Electronics and Communication Department**

- Aalap Doshi of 6th Semester has gone to Wasmer University Germany under GTU's International Exchange Program (IEP) for studying DSP (Digital Signal Processing) and WC (Wireless Communication).
- Thakkar Miral and Samarth Kawade were one of the semi-finalists in 2018 Innovate FPGA Global Design Contest (By INTEL & TERCASIC): Asia Pacific region among 119 participating teams.
- 20 students from the department have successfully completed their summer internship at various companies such as IIT Delhi, EQDC, Doordarshan Kendra, CED, Protek Enterprise, Adani Ports etc.

- Osmi Jaiswal is among the top 10 students of GTU was in 8th semester BEEC examination.
- Vaishali Nimavat and Hardik Tank have secured 1st and 2nd positions in GTU ME CSE 1st semester examination.
- Chirag Senjaliya got 2nd rank, Varsha Goyal got 6th rank and Palak Patel got 8th rank in GTU ME CSE 4th semester examination.
- Patel Harsh (PG Student) has published paper titled "G.729, G.723.1, G.722.2 ITU-T Speech Codecs: A review" in the International Journal for Research in Technological Studies on 16th April 2018.
- Patel Harsh (PG Student) has published paper titled "Speech signal with Enhanced Multi – Pulse excitation code vector with minimized Mean Square Error" in the International Journal for Research in Technological Studies on 30th April 2018.

#### **Information Technology Department**

- (1) Prof. Bakul B Panchal and Maniya Shailjaben Mukeshbhai has published research Paper on "Efficient parallelization of inverse dwt using gpgpu", (2) Prof. Ankit Patel and Janhavi Rajeshkumar Chaudhary has paper presented on "Bilingual machine translation using rnn based deep learning", (3) Prof. Pradip Patel and Patel Meghabahen Kiritbhai has published paper on "A novel approach of sign recognition for Indian sign language", (4) Prof. Chirag S. Thaker and Joshi Bhumbiben Kiritbhai has published paper on "Improving energy efficiency through load optimization in cloud computing", (5) Prof. Swati J. Patel and Nirali A. Patel has published paper on "Hand gesture recognition system for human computer interaction" and "A survey on hand gesture recognition system for human computer interaction", (6) Prof. Mehul Parikh and Aarti N. Patel has paper presented on "Multiple image encryption using chaotic maps and dna computing", (7) Prof. Jahnvi Vithalpara and Niyati B Raj has published paper on "Phishing Detection based on CSS Features of Web Pages" in IJSRSET, Volume 4, Issue 4.
- (1) Patel Meghabahen Kiritbhai and Prof. Hiteishi Diwanji published paper on "Advisory system for predicting production regions for apple and potato" (2) Suthar Monali Bhupendrabhai and Prof. Alka J Patel published paper on "a novel approach for authentication of RFID devices" (3) Fataniya Bhavin Harishbhai and Prof. Manoj Patel published a paper on "Dynamic time quantum approach to improve round robin scheduling algorithm in cloud environment" in International Journal for Scientific Research and Development, Volume 4, Issue 4, April 2018.

#### **Mechanical Engineering Department**

- Mechanical and Automobile depart had organized one day Industrial visit for 6<sup>th</sup> Semester students at G.S.R.T.C. Naroda, Ahd on 21<sup>st</sup> Apr, 2018 coordinated by faculties.

#### **Plastic Technology**

- As a part of World Environment Day celebrations students actively participated in poster making and model making activities in the department.



#### **Rubber Technology**

- Ramandeep Bhalla, Raviraj Patel, Bhasmang Trivedi, Dhaval Panchal and Hardik Thummar, students of B.E. Sem 8 Rubber Technology department have successfully completed their Internship in MAXXIS TYRES during January to April, 2018.

### **6. COLLEGE ACTIVITIES**

#### **KAIZEN 2K18**

- The Open house that showcased the final year industry and user defined projects of B.E and M.E students was held on 12<sup>th</sup> and 13<sup>th</sup> April, 2018 during which the projects was displayed and jury of renowned industrialists and academicians judged them so that they might be further taken up for patents and prototype in near future. Top three from all the branches has been funded in order to reach market. A remarkable number of 550 projects by 1600 students were exhibited. This was followed by farewell of the final year students. The esteemed experts had interesting interaction with students, gave them valuable suggestions, evaluated the projects and ranked them for Prizes. Dr. Navin Sheth Hon. Vice Chancellor GTU, Dr. M N Patel, Former Vice Chancellor, Gujarat University, Shri Dillip Rana IAS/LDCE Alumni, Shri N G Patel Chairman Patel, Airtemp, were our guests to award the winners as well as to encourage students.
- The second session was that of departmental group photo, Prize distribution, a Gala dinner followed by a Musical event by 2<sup>nd</sup> and 3<sup>rd</sup> year students of LDCE. The whole event proved to be a novel and inspiring initiative in the field of Technical Education and G.T.U. is seriously thinking of implementing it in all the affiliated Degree Institutions.
- Faculty members and students of all departments worked hard wholeheartedly to make this event fruitful and successful.







### World Environment Day

- As a part of “World Environmental Day 2018” celebration on 6<sup>th</sup> June 2018, Environmental Engineering department had organized a panel discussion on “Plastic Pollution” at L. D. College of Engineering jointly with Public Relation Society of India (PRSI) – Ahmedabad Chapter, Centre for Environment Excellence (CEE), SEVA & Indus University..



### International Yoga Day celebration

- All faculty members and staff members of L.D.C.E. under the leadership of Principal Dr. G.P. Vadodaria celebrated International Yoga Day with full dedication and enthusiasm on 21<sup>st</sup> June 2018 at Civil lawn of LDCE. This was coordinated by Prof. D.S.Patel.



### Baba Saheb Ambedkar Anniversary Celebration

- The institute celebrated 125<sup>th</sup> Birth Anniversary of Bharat Ratna Dr. Babasaheb bhimrao Ambedkar on 14<sup>th</sup> April, 2018 at Library Building in presence of staff and faculty members of the institute. L.D.C.E. has a tradition of celebrating the birth anniversary of Dr. Ambedkar Sahab.



## 7. Consultancy / Testing work

### Automobile Engineering Department

- Rs. 5000/- testing of HHO kit was carried out by Prof.R.J.Jani, Prof.S.N.Patel , Prof R.J.Choube and Prof C.D.Upadhyay from Electrical department has contributed from electrical point of view.

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

Sr. No.	Titles	Faculties	Department	Venue	Duration
01	Advances in infrastructure engineering & management	Prof.C.N.Bhavsar, Prof. Z.J.Chovatiya, Prof. P.V.shah	Civil Engineering	Civil Dept.	28 <sup>th</sup> May -2 <sup>nd</sup> June , 2018
02	Building Services & Green Engineering	Prof. Minerva Pandya	ENVIRONMENTAL ENGINEERING	NITTTR, Ahmedabad	14 <sup>th</sup> - 18 <sup>th</sup> May 2018
03	Probability & Statistical Methods for Engineering	Prof. Yogeshkumar Gajera	ENVIRONMENTAL ENGINEERING	LDCE Ahmedabad	28 <sup>th</sup> May to 1 <sup>st</sup> June 2018
04	Induction Phase-I	Prof. Vishwa Shukla	ENVIRONMENTAL ENGINEERING	NITTTR, Ahmedabad	25 <sup>th</sup> June to 6 <sup>th</sup> July 2018
05	Fundamentals and Applications of IOT, Big data and Machine Learning	Prof J S Vithalpuria, Prof S J Patel, Prof M K Panchal	IT Dept	IT Dept,	28-05-18 to 08-06-18
06	Computational Fluid Dynamics: Development, Application and analysis.	Prof. D.J.Parmar	Automobile Engg.	IIT-Bombay	25 <sup>th</sup> -29 <sup>th</sup> June 2018
07	Innovation and Advancement in Conventional Industrial Welding Practices	Prof. D.J.Parmar ,Prof. V.G.Trivedi Prof.M.K.Vyas, Prof.A.G.Momin, Prof.G.N.Sutaria, Prof.D.K.Patel, Prof.D.U.Panchal,Prof.D.R.Shah, Prof.S.B.Shah, Prof.P.C.Sheth, Prof. V.D.Sonara, Prof.S.P.Shah,Prof.S.R.Pandya ,	Automobile Engg. Mechanical Engineering	COE- Welding LDCE	28 <sup>th</sup> May -08 <sup>th</sup> June, 2018
08	Importance of Testing of Raw Materials, Processing and Rubber Products	Prof. R.N.Desai, Prof.B.D.Patel&Prof.S.J.Padhiyar	Rubber Technology	Pravin Rubber & Engineering works, Bapunagar.	28th - 30th May, 2018
09	Quality Checking parameters for Rubber Process & Product	Prof.R.Y.Modan, Prof.G.G.Bhatt&Prof.P.N.Chavda		Parth Rubber Tech. Pvt. Ltd., Santej	31 <sup>st</sup> May to 1 <sup>st</sup> June, 2018

10	Emerging Trends in Pavement geotechnics (ETPG-2018)	Prof.Dr.M.V.Shah	Applied Mechanics	IITRAM	30 <sup>th</sup> April – 4 <sup>th</sup> May 2018
11	Academic Audit & NBA Accreditation Preparation	Prof.P.R.Patel	Textile Technology	NITTTT, Ahmedabad	14 <sup>th</sup> -18 <sup>th</sup> May 18
12	Fundamentals and Applications of IOT, Big data and Machine Learning	Prof. Hetal Joshiyara Prof. Amita Shah, Prof. Vimal Vaghela	Computer Department	IT,LDCE	28 <sup>th</sup> May -08 <sup>th</sup> June, 2018
13	Recent Trends in Computer and Information Technology	Prof. Reshma Dayma, Prof. Maitrik Shah	Computer Department	LDCE	02 <sup>th</sup> – 12 <sup>th</sup> April 18
14	Guidance, Counseling and Mentoring Skills	Dr. Apexa Dharankar	General Department	NITTTT, Bhopal	4 <sup>th</sup> to 8 <sup>th</sup> June 2018
15	Advanced 5G Wireless Communications: Performance Analysis and Monte-Carlo Simulations	Prof. Usha Neelakantan	EC Department	Ahmedabad University	18th June to 22nd June 2018
16	Advances in VLSI Technology	Prof. P.J Brahmabhatt, Prof. P.J Muliya, Prof. M.C Sahoo, Prof. K.R Sheth, Prof. A.B Upadhyay, and Prof. N.A Kotak	EC Department	EC LDCE	28 <sup>th</sup> May to 2 <sup>nd</sup> June 2018

## 9. M.E. DESSERTATION

SR. NO	TITLE OF THESIS	NAME OF STUDENT	GUIDE
TEXTILE TECHNOLOGY			
01	Application and Assessment of Performance of Natural Mosquito Repellent on Fabric	Bokade Nidhi	Prof.Ashwin Thakkar / Prof.D.V.Bihola
02	Effect of some of Spinning Process Parameter on Core Spun Polyester / Viscose / Spandex Yarn Properties	AnuradhaMeena	Prof.Ashwin Thakkar / Prof.D.V.Bihola
03	Effect of Yarn Structure on Yarn and Fabric Properties Produced Using Elitwist Yarn and TFO – A Comparative Study	HirparaZankhana	Prof.Ashwin Thakkar / Prof.P.M.Mistry
ENVIRONMENT ENGINEERING			
04	A Study of Potential for Solvent Recovery in Laminate Industry	Chandorkar Archit	Prof. Dimpi Shah
05	Treatment of Pesticide Industry Effluent by Ozonation	Chaudhari Uttejana	Prof. Bina Patel
06	Biomonitoring of Fatewadi canal water using benthic macroinvertebrates for irrigation water quality assessment	Chaudhari Viralkumar	Prof. Minarnva Pandya
07	Effect of Electromagnetic Field on Effluent Characteristics	Choudhari Sneha	Prof. Bina Patel
08	Desertification and land degradation monitoring, vulnerability assessment and combating plan for Banaskantha district, Gujarat	Davda Kruti	Prof. Minarnva Pandya
09	Treatment of Secondary treated CETP wastewater by Hydrodynamic Cavitation	Goswami Hasya	Prof. Gaurangkumar Ban
10	Treatment of Domestic Sewage by Sequential Batch Biofilm Reactor	Jariwala Hiral	Prof. Dimpi Shah
11	Spatio-temporal variability of trace gases over India using geospatial inputs	Jaykumar J Mehta	Prof. Minarnva Pandya
12	Evaluation of cell lysis cryptic growth method using ozonation for reduction of activated sludge at CETP	Navalkha Aparna	Prof. Gaurangkumar Ban
13	Solar Greenhouse aided drying of the primary,secondary and mixed CETP sludge	Niyati Kaushik	Prof. Gaurangkumar Ban
14	Reduction of COD from secondary effluent of CETP by chlorination	Parekh Form	Prof. Gaurangkumar Ban
15	Treatment of secondary effluent of textile industry using RO and single stage evaporation: Approach to ZLD	Parmar Isha	Prof. Gaurangkumar Ban
16	Treatment of food -processing industry wastewater by Vermifiltration	Patel Jatin	Prof. Yogeshkumar Gajera
17	Study of integrated treatment consisting of UASB followed by MBR for the treatment of food processing wastewater	Raiyani Jignesh	Prof. Minarnva Pandya
18	Treatability Study for Reduction of Ammoniacal Nitrogen from Pigment Industry Effluent	Shah Mansi	Prof. Minarnva Pandya
19	Identification of different feed combination for multiple effect evaporator at CETP Vatva to improve quality of distillate.	Thaker Shrey	Prof. Gaurangkumar Ban
20	Pilot-scale study of Down-Flow Hanging Sponge reactor at varying HRTs for the treatment of sewage	Vyas Akshay	Prof. Yogeshkumar Gajera
INFORMATION TECHNOLOGY			
21	Dynamic time quantum approach to improve round robin scheduling algorithm in cloud environment	Fataniya Bhavin Harishbhai	Prof Manoj Patel
22	Bilingual machine translation using rnn based deep learning.	Janhavi	Prof Ankit C. Patel
23	Improving energy efficiency through load optimization in cloud computing	Joshi Bhumiben K	Prof Chirag S Thakkar
24	Improving performance of end to end data transmission using routing matrix based flooding algorithm in vanet.	Khata Vijay P.	Prof Ashil Patel
25	A proposed system for preventing session hijacking with a token based fast cookie authentication	Khevana Samirkumar Shah	Prof Mital K Panchal
26	An efficient gpgpu based ccscs recommended dwt decompressor and optimization of hyperspectral compression parameters	Maniya Shailjaben	Prof Bakul B Panchal



27	Detection of illegally parked vehicles in no parking area using background subtraction and egmm.	Nagar Rikita Ravishankar	Prof H.M.Diwanji
28	A novel approach of sign recognition for indian sign language	Panchal Twinkal	Prof Pradip R. Patel
29	Multiple image encryption algorithm based on chos and dna computing	Patel Aarti	Prof Mehul Parikh
30	Decision support system for supply chain logistics using geographic information system in agriculture	Patel Megha	Prof H.M.Diwanji
31	Hand gesture recognition system for human computer interaction	Patel Nirali A.	Prof Swati.J.Patel
32	Efficient phishing detection based on css features of web pages	Raj Niyati B.	Prof J S Vithalpara
33	Facial expression recognition of human faces using cnns (request to change)	Ravat Chirag	Prof S.A. Solanki
34	Load balancing in cloud computing using dynamic algorithm	Smaranika	Prof Bakul B Panchal
35	A novel approach for authentication of rfid devices	Suthar Monali B	Prof Alka J Patel
36	An efficient approach for accurate frequent pattern mining practicing threshold values	Thakkar Janak	Prof Mehul Parikh
<b>APPLIED MECHANICS DEPARTMENT</b>			
37	Experimental study on seismic behaviour of vernacular buildings	Abhishek Singh	Prof.C.D.Patel
38	Evaluation of Eq. Resistance of RC Building with multi-level isolation	Falguni Chaudhary	Prof.D.H.Raval
39	Experimental investigation on partial replacement of fine aggregate by sand-stone dust in concrete	DevangDangodara	Prof.P.I.Modi
40	Evaluation of bond strength of old and fresh concrete using conventional and new methods	Smeet Desai	Dr.R.K.Gajjar&Prof.P. I.Modi
41	Experimental investigation of mechanical properties of masonry mortar using stone dust as partial replacement of sand	Kaushik Gamit	Dr.H.S.Patel
42	Evaluation of compressive strength of R.C.C. column strengthened using Ferro-cement with different mesh pattern	BhargavJinjala	Prof.A.G.Hansora&Prof.B.R.Patel
43	Handbook for Typified Designs of 'Lean to Roof Type Steel Trusses" based on IS 800 : 2007 and IS 875 : 2015	Darshan Patel	Prof.K.A.Parmar
44	Parametric study on foundation of suspension and tension tower with rectangular and square base	AakashPopat	Prof.P.G.Patel
45	Study on effect of lateral load precast slab to beam connection in multi-storey steel structure	JayeshRajai	Dr.C.S.Sanghvi
46	Design aids for typified design of "A" Type steel roof trusses based on IS 800-2007 and IS 875-2015	Harsh Shah	Dr.R.K.Gajjar&Prof.K. A.Parmar
47	Integral and surface waterproofing of concrete with organo-silane compound	Chandrakant Sharda	Prof.D.R.Tarachandani
48	Parametric study of bridge pier considering soil structure interaction	Swami Jeet	Prof.B.J.Panchal
49	Experimental study of high performance concrete using Portland Pozzolana Cement with silica fume and replacing natural river sand with quarry dust	Vipul Tailor	Prof.C.D.Patel&Prof.B .R.Patel
50	Parametric Study of Soil-Structure Interaction in Dynamic Loading	NiravParmar	Prof.P.G.Patel
51	Stabilization of clayey soil using GGBF slag with Portland Cement and Hydrated Lime	Ankit Adwani	Prof.A.J.Shah
52	Suction Characteristics of Municipal Solid Waste	Abhijit Brambhatt	Prof.Dr.M.V.Shah
53	Evaluating the Influence of Bio-enzyme on Expansive Soil as an Additive	ShivaniChaudhari	Prof.U.K.Patel& Prof Shalini R. Singh
54	Model Tests to determine uplift capacity of combined vertical and batter pile groups embedded in sandy soil	Ram Dhankani	Prof.M.G.Vanza
55	Performance evaluation of MSW as a backfill material in reinforced earth wall	KinjalGajjar	Prof.A.J.Shah
56	Modulus of subgrade reaction of fly ash columns embedded In expansive soil	VikasKhuswah	Dr.S.P.Dave,& Prof Shalini R. Singh
57	Comparison of displacement of group piles with different L/D ratio embedded In sand subjected to vertical and lateral loading	Ashish Masani	Prof.M.G.Vanza
58	Parametric study of helical pile under lateral load in sand	MohitSoni	Dr.S.P.Dave
59	Strength and deformation characteristics of jointed block rock matrix using triaxial system	Arpit Patel	Prof.Dr.M.V.Shah
60	Compressibility characteristics of soft clay using large sized model consolidation test through sand drain	NiravRathod	Prof.A.R.Gandhi&Prof .Dr.M.V.Shah
61	Correlation of shear strength parameters of IS:1498(1970) classified sandy soil - % fines replaced by % Kaolin	ForamSavalia	Prof.P.J.Mehta
62	Strength and settlement characteristics of soil cement column in low plastic soil	Parth Shah	Prof.A.R.Gandhi&Prof .Dr.M.V.Shah
<b>CIVIL ENGINEERING DEPARTMENT</b>			
63	Developing FAR Price Model Using OR Techniques	Kishan Joshi	Prof.D.K.Oza
64	Study of Interaction Between Pedestrian and Vehicle at Urban Pedestrian Crossing Locations	Meet R. Patel	Prof.R.N.Shukla
65	Evaluation of organosilane based technologies for repair of road distress and potholes	Dax B. Patel	Dr. P.J.Gundaliya
66	Measurement of unevenness on flexible pavement using profilometer - A case study	Durgesh Singh	Dr. P.J.Gundaliya
67	Analysis of super elevation and model formulation of side friction factor	Alkesh A. Rabari	Dr. P.J.Gundaliya
68	Comparative study of IRC mix Design & Ambuja mix design using Jute Fibre in cement concrete pavement	Rushi B Patel	Dr.V.R.Patel

69	Evaluation of organosilane additive for Bituminous concrete mix design	Kunal L Vaghela	Prof.V.J.Chitaria
70	Development of Landslide Susceptibility Map at Part of Uttarakhand, Himalaya, India Using GIS	Fayez Laila	Dr. M. B. Dholakia
71	Study of Contamination of Ground Water and Health Hazards due to Municipal Solid Waste Disposal Site, using the GIS	Chopda Mubin A.	Prof. A. M. Malek Prof. C. N. Bhavsar
72	Mass Balance and Water Storage of Himalayan Glacier	Gameti Darshil	Dr. M. S. Gadhavi
73	Water Quality Analysis using Adaptive Network-Based Fuzzy Inference System	Jambukiya Jignesh	Dr. M. B. Dholakia
74	Design and Monitoring of Water Distribution Network by EPANET and SCADA Software	Jethva Vivek Jitendrabhai	Dr. V. M. Patel Prof. P. K. Shah
75	Geostatistical Analysis of Groundwater and Delineation of Groundwater Recharge Potential Zones using GIS in Banaskantha District, Gujarat	Md Faizan Ansari	Dr. G. P. Vadodaria
76	River Basin Flood Flow Prediction using Adaptive Neuro Fuzzy Inference System (ANFIS)	Nasit Sachin Babubhai	Prof. R. M. Jadav Prof. S. H. Kazi
77	Flood Inundation Mapping Through HEC-RAS Hydrodynamic Modelling	Pandya Kajal H.	Dr. G. P. Vadodaria
78	Modelling the Coastal Sediment Plume Dynamics Along Krishna Godavari Basin	Parmar Aditi Ajitsinh	Dr. M. B. Dholakia
79	Estimation and Comparison of Evaporation Losses by Different Empirical Methods	Patel Ashishkumar	Prof. N. J. Dalal
80	Study on Rainfall Variability of North Gujarat Region by Statistical Test	Patel Sunilkumar K.	Dr. R. B. Khasia Prof. Z. J. Chovatiya
81	Flood Inundation Mapping and Analysis using Remote Sensing.	Vadher Pinkal M.	Prof. N. J. Dalal Prof. P. K. Lalvani
<b>Electronics and Communication Engineering</b>			
82	Wave Collection And Transport System For K And Ka Band For FMCW Microwave Reflectometry For Aditya-U Tokamak.	Varsha Goyal	Prof. Usha Neelakantan
83	Simulation And Performance Analysis Of Massive MIMO Uplink For 5G Technology	Bhatt Maharshi Kishorbhai	Dr. B.S Sedani
84	Development Of Mathematical Model, Analysis And Simulation Of Microwave Photonic Filter For Wireless Transmission	Chotaliya Ankitaben Gunvantbhai	Prof. Usha Neelakantan
85	Design Of High Precision Low Power ADC In CMOS 180nm Technology	Pandya Nisha Dhaneshwarbhai	Prof. P.J Brahmbhatt
86	Design And Analyses Of Meta-material Loaded Coaxial Waveguide	Patel Palak Rameshbhai	Prof. M.C Sahoo
87	Design And Analysis Of Meta-material Loaded Helical Antenna At K-Band For WLAN	Dipayan Chatterjee	Prof. A.B Nandurbarkar
88	Wave Collection And Transport System For Michelson Interferometer Diagnostic (70-500ghz) For SST-I Tokamak.	Sonam Sharma	Prof. Usha Neelakantan
89	Data Processing Technique For Analyzing Ka-Band Reflectometry Data Using Python	Modi Rishabhkumar Navinchandra	Dr. A.B Nandurbarkar
90	Implementation And Performance Analysis Of Programmable Pre-scalar	Sisodiya Reena	Dr. M.V Shah
91	Design Of Slotted Micro-strip Patch Antenna For 5G Application	Tarpara Nikita Maganbhai	Prof. N.A Kotak
92	Design And Simulation Of Microwave Sensor For High Power Stray Radiation	Panchal Vaishalibahen Rameshchandra	Prof. K.R Sheth
93	Simulation And Performance Analysis Of Internet Access For High Speed Train	Shah Manshi Pravinkumar	Dr. B.S Sedani
94	Design Of Planar Antenna For Bandwidth Enhancement Using Meta-material In C-Band Applications	Savaliya Niral Hareshbhai	Dr. A.B Nandurbarkar
95	Design Of A Wideband Planar Inverted F Antenna For Wireless Communication Devices	Rathwa Rajubhai Ramsingbhai	Prof. N.A Kotak
96	Information Hiding Using Excitation Structure Of CS-ACLEP Based Speech Codec	Patel Harsh Kirtibhai	Prof. K.G Vaghela
97	180nm CMOS Process Based Integer-N PLL Design & Simulation At 2.5 GHz	Senjaliya Chiragkumar Mansukhbhai	Prof. Usha Nellakantan
98	Implementation Of CMOS Active Inductor And Its Application	Kacha Disha Mansukhbhai	Dr. M.V Shah
99	Development Of 100W Broadband Dual Directional Coupler Using Ferrite Transformer For 10 To 80 MHz	Sorathia Shweta	Prof. P.J Muliya
100	Performance Analysis Of Routing Protocols For 802.11p Including Propagation Models	Parmar Mit Rameshchandra	Prof. K.G Vaghela
101	Intersystem Integration And Performance Analysis Including Bare Metal Development And Android Based Embedded Modules	Vinay Kumar Singh	Prof. S.K Gonsai
102	Automated Verification Environment For Performance Measurement And Coverage Extraction	Jain Palak D	Dr. M.V. Shah
103	Development Of 40W Solid State Broadband Power Amplifier In The Frequency Range 38 + - 8 MHz Range	Patel Shwetal Niranjan	Dr. B.S Sedani

## Newsletter Committee Members

Dr. K.G. Dave, Prof. A.G. Momin, Prof. D.K. Patel, Dr. A.B. Dharankar