1. From the Desk of the Principal

Dear students and faculty members,

The year began on a note of positivity and hopefulness with a very unique celebration of Kite festival by the Umeed fest. ... the year. I hope we work with same efforts round the year to create a better year for us.

Principal, Dr. G. P. Vadodaria

January - March 2018

NewsLetter Committee Members

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

Vol. -14, Issue - 1

Quarterly Magazine January - March 2018
2. PAPERS PRESENTED/PUBLISHED

Applied Mechanics Department


Chemical Engineering Department


Electrical Engineering Department


Dr. H. S. Patel & Kaushik Gamit published a research paper entitled “Mechanical Properties of Brick Masonry using Stone Dust as Partially Replacement with Sand in Mortar in Rural Area” in International Research and Development, Vol. 6, Issue 01, 2018, pp:1187-1191.


Environmental Engineering Department

Prof. Minita Pandya published a review paper on “Aerobic and Anaerobic Processes for the Treatment of Food Processing Wastewater” in one day national seminar on “Environment, Pollution and Climate Change” at Madras Institute of Technology, Chennai, Tamilnadu during 8-9 March, 2018.


Environmental and Communication Technologies


Rubber Technology Department


I. DEPARTMENTAL ACTIVITIES

Applied Mechanics Department

An expert lecture was arranged on 6/2/18 on “Innovations in Concrete” by Dr.Biraj Kumar and Priyanka Thakkar of RMC Ready-Mix India (a division of Prism Cement Limited), who spoke on various types of innovations in concrete such as Megacrete, Perviouscrete, Portacrete, FRcrete and many more.

A technical site visit to Surat was arranged for ME (Structures + Geo-technical) on 15 & 16 Feb’18 with a purpose of the visit was to have an insight into the construction of all the major high end projects such as Statues of Unity, Surat Solar Park and Dam Site. A total number of 35 students along with faculty members Prof. B. J.anchal, Prof. U. K. Patel, Prof. MV Sharma, Prof. S. B. Shah, Prof. P. D. V. Bholah, Prof. Nehal Bhavsar had made the visit with prior permission from the concerned agency.
The Department has entered into a Memorandum of Understanding (MoU) with Soma Tech Pvt. Ltd, represented by CEO Mr. Hiren Desai, on 7 March 2018, for promoting and reinforcing cooperation, mutual exchange of Information and Technological know-how, joint collaborative work in R&D projects, curriculum development, internships and placements, improvement of research and academic programme and also exchange of experts and researchers.

Chemical Engineering Department

Memorandum of Agreement (MoA) was signed at 27 Feb, 2018 involving Gujarat Chemical Association, LCDE and Centre for Environment Education. The objective of this MoA is to carry out various activities for creating awareness, training, skill development, placement for students, entrepreneurship cell, industrial sponsored projects, R&D, expert lectures, industrial visits, testing and consultancy, organizing workshops/ seminars, technical and legal guidance and all such activities related to environmental pollution prevention and control for members of GCA, Students/faculties of LCDE and Officers of CEED.

A training program on “Safety & Hazard analysis in Chemical Industry” for B.E. Sem. VI students by Prof. M. N. Vyas, Ex-Officio, IPCL, Vadodara on 17 Feb, 2018.

Mr. Dinesh Jasani enlightened B.E.Sem VI & VIII students on “Unleash the unlimited power of mind” on 19 Feb, 2018.

Expert Lecture for B.E.Sem VI & VIII students on “Challenges and Opportunities in the Fuel & Chemical Engineering in U.K and U.S.A” by Dr. Bhuraj Jain, Member Secretary, Gujarat Cleaner Production Center, Gandhinagar on 3 Feb, 2018.

A seminar on “R&D developments and Challenges in Fuel and Chemical Industry” was organized on 23 Feb 2018. The key speaker was Dr. Asit Das, Head, Refinery R&D and Process Development at Reliance Industries, Jamnagar. He was accompanied by Dr. Praveen Chintala.

50 Students (semester 8) of Instrumentation and Control Department of GEC Gandhinagar have visited Automobile Lab and Engine testing facility at LCDE on 13 March 2018 which was coordinated by Prof. Shyam Dabhi and Prof. Sulay Patel.

Biomedical Engineering Department

Biomedical Engineering department had arranged Awareness program on “Neck Ergonomics/ Pain, Posture and Mobile Usage” on 5/1/2018 by Dr Binal Gajjar and team from SBB College of Physiotherapy, Ahmedabad. Approximately 100 students of various departments attended the program.

Under student startup and innovation policy of Government of Gujarat, Biomedical Engineering department has organized an awareness program on startups and entrepreneurship development on 9th February 2018 attended by 85 students. The topic of the seminar was “Zero to one- Job seeker to Job creator” delivered by Mr. Kalp Bhattacharjee (Assistant Incubation Manager-IGNITE). He had given insight of Entrepreneurship skills and some thoughtful information regarding startups and innovation.

A seminar was organized on “Recent Advancements in Chemical Engineering and Environment Management” during 26-27 March, 2018. Eminent speakers Dr. S. K. Das, Professor, Chemical Dept., PdPU University; Dr. Vimal Gandhi, Professor, Chemical Dept., DDIT, Nadadud; and Shri D. N. Sharma, Retd. General Manager, Saurashtra Chemical, Porbandar shared their expertise with students. The workshop was coordinated by Prof. A. C. Vagheva and Prof. S. M. Dutta.

Computer Engineering Department

Department had organized STTP on “Dependable Computing - Understanding Dependability and Fault Tolerance and Implications”, under IETE, sponsored by MHIRD during 6-10 February 2018. Prof. D.A. Parikh, HOD of Computer Engineering Department was Course Coordinator of the program. Total 59 participants were registered in this course. Foreign Expert Dr. Arun K. Somasundaram, Associate Dean for Research at College of Engineering and Anson Marston Distinguished Professor at Iowa State University, Ames, IA, SA conducted the STTP.

Chemical Engineering Department

Department had organized a seminar on “Entrepreneurship as a Career”, an initiative of Aarambh, an Initiative of Aarambh, on 19 February 2018. A workshop was organized by the department on Advance Java on 27/3/2018 for students conducted by Tops Technology, Ahmedabad.

Civil Engineering Department

Department, with Directorate of Technical Education, organized STTP on “Recent trends in Civil Engineering” for the duration of 5-17 February, 2018.

The World Water Day was celebrated by Civil Engineering and Environment Engineering departments on 22 March 2018, under the coordination of Dr. V. M. Patel, Member Secretary and Prof. N. J. Dalal under the aegis of Indian Water Works Association, Ahmedabad Centre. The theme for the event, “Nature for Water” explores how we can use nature to overcome the water challenges of the 21st century. Theme base keynote address was delivered by the Chairperson honorable Dr. Jay Narayan Vyas. On this occasion Shri J. B. Kathagathra and Shri Vimal Chokshavatia delivered expert lectures to share the current problems & scenarios and their solutions.

Electronics and Communication Department

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

M. S. Mehta (Director Samyak Group-EC LCDE Alumni) and Mr Gopesh Sanghvi (IC LCDE Alumni) have delivered expert lecture on “Basic Aspects of Entrepreneurship” organized under SSIP activity on 12 February 2018.

Mr. Prateek Makwana (EC LCDE Alumni) conducted a two days workshop on “Basics of Arduino” under IETE student forum in February 2018.

The department and CiC3 had jointly organized a day workshop on “Raspberry pi” on 19 February 2018. Asst. Prof. Raj Hakani (CiC3 - GTU) conducted the workshop for 52 participants.

Mr. Snehal Patel from e-Infochips, Ahmedabad delivered an expert lecture on “Advanced Challenges in VLSI” on 22 February 2018.


Environmental Engineering Department

As a part of Celebration of “World Water Day 2018”, Environmental Engineering Department had organized a Poster making competition with the theme of “Nature for Water” on 23 March 2018. Total 23 students participated.

Information Technology Engineering Department

The Department has successfully organized one day “International Conference on Advance Research Trends in Information and Computing Technology 2018” on 20 January 2018 in association with L.D.Alumni Association, GUJCOST & IJSRSET. Around 40 researchers across India presented their research on emerging technological trends in IOT. This conference covered paper presentation on various socio-economic issues such as how to predict production of groundwater, security of social media, various survey techniques including topics such as Indian sign language for deaf – dumb people, locating illegally parked vehicle.

Biomedical Engineering department had arranged Awareness programme on “Nature for Water” for the duration of 5-17 February, 2018. The World Water Day was celebrated by Civil Engineering and Environment Management Department, with Directorate of Technical Education, organized STTP on “Recent trends in Civil Engineering” for the duration of 5-17 February, 2018.

Students of PG had visited Narmada Dam site on 26 March 2018 with two faculty members.

70 students of B.E. (Sem-8) visited Narol Common Effluent Treatment Plant on 20 January 2018

16 students of M.E. (Sem-2) visited 240 MLD Sewage Treatment Plant on 17 February 2018.

The Department had organized an expert lecture on “Recent Innovative Approaches in Air Pollution Control” by Mr. Vivek Sheth, Director, Envirosleon Solutions, Ahmedabad on 31 January 2018 under SSIP cell. 85 students attended this lecture.

LDCE has handled schedule-1 environmental auditor till 31/12/2019 (for next two years) under the environmental audit scheme of Honorable High Court / Government of Gujarat/ Gujarat Pollution Control Board.

Civil Engineering Department

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Environmental Engineering Department

The Department had arranged an expert lecture on “Cryogenic Technology” by Dr. Pradip Mukherji for M. Tech. Students under PMGYS on 17 Feb. 2018.

Textile Technology Department

An expert talk on “Business scope for Digital Printing” under SSIII was organized in the department on 21 March 2018. All the faculty and students of the department attended the program.

The department organized a seminar on Woolmark Wool Education Course, an initiative that is a part of the Australian Wool Innovation Limited’s global education extension strategy on 22 March 2018 and was attended by the students and the faculty of the department. More than 150 participants were benefited by the seminar.

The Department, Institute of Engineers and ATIRA jointly organized a one day workshop on “Meditech” at ATIRA, Ahmedabad on 23 April, 2018.

Chemical Engineering Department

Dr. Sachin P. Parikh participated and completed successfully 21 km (half-marathon) organized by Rajkot Municipal Corporation (RMC) on 18 February 2018.

Civil Engineering Department

Dr. P. J. Gundalia and team organized Training program through Two-Way Video Communication on “Recent Advances in Civil Engineering” Online-Across the Gujarat State Engineering and Polytechnics for Two Weeks during 17 Feb 2018 (organized by CTE). Dr. G. H. Upadhyay and Mr. R. N. Baterivala for this training.

Automobile Engineering Department

Prof. Jayendra Vasani had coordinated state level event on “Hackathon 2018”.

Environmental Engineering Department

Prof. S. K. Parmar, Prof. K. J. Ponda and Prof. S. J. Parapuram attended a seminar organized by Saurer group on 12 March, 2018 at Crowne Plaza, Ahmedabad. More than 150 participants were benefited by the seminar.

Electrical Engineering Department

Prof. Jiten K Chavda, had delivered expert lecture on “Past, Present & Future trends in Electric Vehicles” at Darshan Institute of Engineering & Technology, Rajkot.

Electronics and Communication Department

Prof. Usha Neelakantan was invited as a jury member at the National Conference on “Advanced Research Trends in Information and Computing Technology” organized by IT Department LCDE on 20 Jan 2018.

Dr. Mihir Shah as a joint CIO GKS had organized 5 hackathons at state level and identified innovative projects bifurcating the requirement and IT solutions for different departments and organizations.

Dr. Bhavin Sedani has been honored with Young Researcher Award (Republican Day Achiever Award-2018) by Integrated Intelligent Research, Chennai – India.

Dr. Bhavin Sedani has been invited as a committee member of The 2nd Annual International Conference on Artificial Intelligence and Computer Engineering at X’ian, Shaanxi- China.

Dr. B.S Sedani and Dr. N.A. Kotak have filed the provisional patent related to enhancement of 4G Wireless Systems with high efficiency video coding standard.

Dr. B. S. Sedani, Dr. A. B. Nandurkaraskar, and Prof. K.G. Vaghele were invited as judge in smart hackathon on 24 March 2018 at PDPU (organized by CTE).

Environmental Engineering Department

Prof. Minarva Pandya worked as a chairperson in a technical session during WIAA Annual Day Celebration at Bhaikaka Bhavan, Ahmedabad on 24 March 2018.

Mechanical Engineering Department

Dr. P. R. Rathod had delivered an expert lecture on “Basics of Welding and SMAW” on 05/02/2018 and 22/03/2018 in STTP organized by CoE-Welding and Mechanical Engineering Department at CoE-Welding.

Dr. G. H. Upadhay had delivered an expert lecture on “Safety on Welding” on 10/02/2018, 20/02/2018 and 26/03/2018 in STTP organized by CoE-Welding and Mechanical Engineering Department at CoE-Welding.

Prof. M. D. Chaudhari had delivered expert lectures on “Gas Metal Arc Welding and Gas tungsten Arc Welding” on 07/02/2018, 2) “Good Engineering Practice” on 08/02/2018 and 3) “Heat treatments of Welding” on 14/02/2018, 22/02/2018, 28/03/2018 in STTP organized by CoE-Welding and Mechanical Engineering Department.


Plastic Technology:

Prof. Stuti Shah and Prof Hetal Shah participated in HR round table workshop on “Challenges for Workforce development for Indian Plastic Industry” organized by Plast India International University and University of Massachusetts, Lowell at Mahatma Mandir, Gandhinagar, on 9 Feb 2018.

Prof. B.G. Basantani was invited as an Expert Committee Member by AMUL/FED Dairy for appointment of Senior Technical Officers on March 15, 2018.

Rubber Technology:

Expert lectures were organized for students on (1) Application of CAD in Rubber/Polymer Industry by Mr. Prakash Purohit, Director of CAD Center, Vastrapur branch, Ahmedabad on 7 February 2018. (2) Design Thinking” by Mr.Rohan Shah, creator of the Avent Company, Ahmedabad on 17 March 2018. (3) “Role of Fabric in improvement of Belt and Hose performance” by Mr. Ronak Panchal, MD of Panchal Rubber Industry, Ahmedabad on 20 March 2018.

An expert lecture series was organized for B.E. Sem IV students on “Principles of Rubber Compounding” by Mr. Anil Shah, MD of Pioneer Rubber Industry during January, 2018.

An expert lecture series was organized for M.E. II students on “Methods of Optimizations in Rubber Industries” by Prof. N. M Patel during January-February, 2018.

Textile Technology Department

Prof. Ashwin Thakkar, Prof. D.V.Bhivala, Prof. H.J.Jaiswal, Prof. S.K.Parmar and Prof. S.J.Pandya attended a seminar organized by Saurer group on 12 March, 2018 at Crowne Plaza, Ahmedabad.

Applied Mechanics Department


Automobile Engineering Department

At Siemens Centre of Excellence of the institute, Prof. Y.D.Vora and Prof. S.S.Patran coordinated training programmes on Essentials of NX software and CNC part programming for nearly 50 students of GEC, Dhoadh and Silver Oak College of Engineering & Technology respectively.

As inter-departmental activity, at Siemens Centre of Excellence of L.D.C.E., Prof. S.S.Pathan and Prof. K.P.Hira have guided final year students of Bio-medical Engg. of L.D.C.E. and also the final year Mechanical Engg. students of GIT for their research project work. The projects include: Printing of Robotic Arm for surgery, An orthopedic wrist for monitoring Healing process, Portable phlebotomy box with Non-Electric blood Mitter, Human Powered Nebulizer, Bionic Arm Implementation of prosthetic hand using EMG Signals, High dexterity Low cost EMG based bionic hand, Pneumatic Tube Material Transport system.

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Applied Mechanics Department

One week STTP on “Fundamentals of Welding Processes” was organized by CoE-Welding and Mechanical engineering department on 24-29 March 2018. Dr. P.R. Rathod coordinated and Prof. D.K. Patel, Dr. M.D. Chaudhari, Prof. S.R. Pandya coordinated under guidance of Dr. G.H. Upadhyay and Mr. R.N. Baterivala for this training.

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Roshan Rawal (3 Year) became winner at India's First Drone Hackathon "Enginium" which was organized at Ahmedabad University on 3 - 4 March 2018. They got 5000 rupees as prize. Roshan Rawal, 3 Year student from ... with LDCE students. Bhargav Thankey and Oza Jay, 8 sem. students secured 4th AIR and 767th AIR respectively in GATE 2018.

Team Innovators from LDCE became Second winner at "Smart Gujarat for new India Hackathon 2018 which was organized at PDPU, Gandhinagar. Team was also appreciated by Hon. ... on date 18 February 2018. It was running of 7.5km on road track. Kartavya Patel's (8th Semester) proposed project idea "Green" has been accepted as POC/prototype for financial assistance under SSIP policy of government of Gujarat. Harshit Makwana got the gold medal at GTU Convocation. Milan Panchal ... secured 2nd position in trekking (10,000 Feet) competition conducted at Manali, Himachal Pradesh during 13-20 January 2018.

VGEC, Chandkheda on 15 March 2018. Anjali Tailor and Surya Satish of 4th Semester were winner in poster presentation ... Gohil and Anjali Tailor of 4th Semester stood 1st in the event called 3-2-1 Launch in the science Fest called "Vision 2100" conducted under the science Fest "Tarang" on 24 March 2018.

65 students of 4th sem have visited R.B. Engineers at Khattri on 22/02/2018. Prof. H.P. Patel, Prof. A.G. Momin, Prof. D.K. Patel, Prof. S.J. Patel and Dr. M.D. Chaudhary had accompanied students and shared their views.

Semester 6 students of Mechanical Department went on an industrial visit to visited Gujarat International Finance Tec-City (GIFT), Gandhinagar accompanied by three faculty members Dr.S.M.Meheta, Prof. Hardik Shukla, Prof. J.P. Dataniya on 20 January, 2018.

62 students of 4 sem have visited foundry exhibition at “66 Indian Foundry Congress” was held at Exhibition ground, Gandhinagar on 11/01/2018. Dr. G.H. Upadhyay, Prof. D.K. Patel and Dr. M.D. Chaudhary had accompanied students.

The Department had organized students Industrial visit at Sardar sarovar Dam on 7 Feb 2018 coordinated by Prof. V.D. Sondha, Prof. H.A. Shukla, Prof. K.R. Hirapara, A.G. Momin, Prf. J.P. Dataniya, Prof. A.G. Momin, Prof. H.R. Patel, Prof. H.M. Gejji and Prof. K.A. Patel.

Two students' projects got sponsored under SSIP: 1) Human powered nebulizer by Brinda Sutaria, Bhojani Rosemin, Chauhan Virdhi, Sondagar Radhika received 1,00,000 INR and 2) Safety belt for women by Ashwini Maheshwarwad received 50,000 INR.

Students of 8th semester attended two days workshop on DWSIM (A free open source software) on 9 -10 Feb, 2018 at SRCIT and on “Communication Skill and Personality development” at Institute of Enng. and Tech., Ahmedabad.

PVC cricket cup organized by students of 8th sem for Plastic, Rubber and Chemical Dept. students on 29 to 31 March, 2018.

The following applicants of the department are sanctioned financial support under SSIP granted as mentioned below: (1) “Waste water remediation using nanophotocatalysis through solar energy” by Mohit Agrawal and group has got grant of the amount 1.6 Lakhs. (2) “Production of Biodiesel using nanocatalysts” By Kashyap Gandhi has got grant of the amount 2 Lakhs.

Industrial visit at CETP-Valva, Ahmadabad arranged for the pre-final year B.E students on 19 March, 2018. Prof. R. P. Bhatt, Prof. T.S. Rajaraman and Prof. R.K. Kanzariya accompanied the students for the visit.

Students of Semester 6 had visited (1) Railway Engineering workshop- Sabarmati on 27 Feb 2018. Total 120 students along with three staff members, Prof.S.C. Rathod, Prof.D.K. Oza and Prof.R.H. Budhabhatt were present (2) Kandla and Mundra port - Bhar on 5,7 Feb 2018. Total 100 students along with four staff members, Prof. S.C. Rathod, Prof.J.S. Kamble, Prof.H.H. Jariwala, Shri B.K. Solanki, were present.

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Cycling

- A 25 km cycling event “Ahmadabad Cycling” on 10 February 2018 was organized by Dr. Sachin Parikh, Head of Department, Chemical, for students and faculties of LDCE which was inaugurated by Shre Hariom Gandhi, Chief of Narcotics’ division. The cycling started from the campus of LDCE in which 20 faculties including Principal Sir and 30 students joined. The route of the cycling event was, LDCE- Atiya-Apsalav showroom- SGI highway- Science city- Pakwan cross road-manshi circle.

Student start-up and innovation practices

- The institute received award from Horible Chief Minister of Gujarat for excellence in Start-up and student innovations practises for betterment of Education, Society and Nation at Grand Education Fair on 2 February 2018.

On January 6, 2018, a Faculty Awareness Program was conducted to induct institute’s faculty members and introduce them to the concept of start-ups and entrepreneurship. Over ... two subject experts (one internal & one external) three to four institute committee members. During this evaluation, 15 applications were recommended for funding support. A sum total of Rs. 14.75 lakhs was approved for these 14 applicants. After the rally, the august gathering of NSS volunteers, NCC cadets, faculty members, staff members, LAA members and others invites offered salute to the ‘Tiranga’ which was unfurled by Chief Guest Capt. Adhir M Patel, COMMANDING OFFICER 1 Guj Naval Unit NCC, Ahmedabad, NCC & Dr G P Vadodaria, Principal. Just after that the atmosphere was resonated by our national anthem. Capt. Adhir Patel had delivered a very inspiring key note address. He has mainly focused on engineering opportunities in Indian Navy. Principal gave a very motivating speech. The event included parade and cultural programs.

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Robocon 2018

- LDCE Robocon team won “Best idea award” at National Robotic Contest – Robocon 2018 held at Balewadi Stadium - Pune during 01-03 March 2018.

UMED: The Kite Flying Festival

- An innovative initiative was taken up by National Service Scheme of LDCE. It is observed that children from slum areas are not enjoying Kite Flying Festival (Uttarayan) because of financial constraints. They involve themselves in catching of kites during the festival of Uttarayan. They may become victims of accident in many cases. Therefore it is planned to donate Kites to these kids so that they can also enjoy this festival & try to avoid accidents due to catching of kites.

- Under this activity, more than 1000 students from the slum gathered on 12 January 2018 at LD cricket ground, Navrangpura and celebrated Uttarayan. This activity was supported by many NGOs. The whole event was centrally co-ordinated by Ronak, Mayur, Priyanshi, Forum, Tanuja, Ujjaval, Mamta & Darshil.

Republic Day

- The 69 Republic Day was celebrated with great zeal and enthusiasm this year. The celebration began with a Rally at 9:00 am. The motive of the rally was to spread traffic awareness for the youth. The rally led by the Dr G P Vadodaria, with NCC cadets, NSS volunteers, staff/faculty members, security guards & students of the college. NCC cadets from 1 GUJROMPO (TECH) COY led by Cadet Mehal Farjpeeri & NSS Volunteers led by Alifz Mankad demonstrated impeccable discipline during the rally.