

Resonance@GDEC

For limited Circulations Only

Start-Up and Innovation Protothon

The Business Accelerator and Start-Up cell of GIDC Degree Engineering College (GDEC), approved by Centre for Entrepreneurship Development (CED) Gandhinagar has organized one day workshop on "STARTUP & INNOVATION PROTOTHON" Under the sponsorship of Gujarat Council on Science & Technology (GUJCOST) and Gujarat Informatics Ltd. (GIL) Department of Science & Technology and supported by Centre for Entrepreneurship Development (CED), Government of Gujarat on 24th November, 2017. The workshop inaugural commenced with Lamp Lightening by C.A. Vinodchandra Desai-Trustee Member, GIDC Education Society, Dr. A. K. Dave-Trustee Member, GIDC Education Society, Shri. Pankajsinh Thakor-Ex. Pres. Navsari Chamber of Commerce, Shri. Anil Saraogi- Chairman, Executive Core Committee, The Southern Gujarat Chamber of Commerce & Industry(SGCCCI), Shri. Mayank Mehta-Deputy Manager from CED.

Dr. K. N. Mistry Principal, GIDC Degree Engineering College welcomed all the guests. In addition, he gave brief introduction about Speaker and invited Guests. Furthermore, gave information about College's Business Accelerator and Start-Up Cell and GDEC incubation Centre. He motivated participants to get the maximum benefit from the workshop. Dr. Ram Nath Prasad Director, CED, acquaint about Centre for entrepreneurship Development. He highlighted scope of entrepreneurship and Start up. He encouraged all the participants to meet the entrepreneur who have got immense success in their life. In addition, he recommended attendees to discourse with entrepreneur who experienced failure in their entrepreneurship. He believes that 20% success is achieved from training and 80% success is achieved from self-belief and efforts and passion of learning.

Shri. Anil Saraogi, Chairman, Executive Core Committee, the Southern Gujarat Chamber of Commerce & Industry (SGCCI), delivered an expert session on Awareness about overall Business Growth for Start-Ups. He started his session by explaining differences between entrepreneurship and Start-Ups. He recommended attendees to read various books related to entrepreneurship and Start-Ups. In addition, he explained why Start-Ups should value speed and strive for excellence over perfection. Dr. Sunil D. Kahar, Coordinator, Centre for Start-ups, Maharaja Sayajirao University (MSU), delivered expert session on Role of Industry-Academia Collaboration in promoting Student Start Ups Eco-System. He explained why Collaboration between academia and industry is increasingly a critical component of efficient national innovation systems. The benefits of university-industry linkages are wide-reaching.

Mr. Nikhil Suthar, Entrepreneur, Founder of Compu Talent & Novelta Tech & Co-Founder of Pixel Perfect Technology LLP – Profism, delivered expert session on Journey from Idea to Minimum Viable Product (MVP) & Start-Ups policies. In this session, He brief audience with what is Start-Up & explained how does one come up with good Start-Ups ideas & how do one find problems worth solving.

Mr. Bhavik Patel, Patent & Trademark Attorney, Infinvent IP, Vadodara, delivered expert session on Patent Procedure for innovative ideas. He explained basics of patents and why patents are required for an invention. A patent is a government authority or licence conferring a right or title for a limited set period, especially the sole right to exclude others from making, using, or selling an invention. In this Worksop 31 Faculties, 27 Students and 1 Entrepreneur Participated enthusiastically.

Prof. Dr. H. S. Patil, Prof. Archana M. Nayak, Prof. Sunil Jaganiya, Prof. Kaushal Kevadia, Prof. Mayur Patel, Prof. Ketan Lad, Prof. Harshal Vashi, Prof. Sunil Khokhar, Prof. Kushal Patel enthusiastically organized this workshop.

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GDEC Team

Dr. K. N. Mistry, Principal
(Dean, South Zone, GTU)

Dr. H. S. Patil,
Head, Mechanical Engg. Dept.

Prof. Archana Nayak,
Head, Computer Engg. Dept.

Prof. Vikunj Tilva,
Head, Civil Engg. Dept.

Prof. Toral Patel,
Head, Automobile Engg. Dept.

Prof. Dhaval Patel,
Head, Electrical Engg. Dept.

Dr. S. S. Patel,
Head, Applied Sci. & Huma. Dept.

Editorial Team

- Prof. Archana M. Nayak
- Prof. Bhumika H. Patel
- Prof. Kushal D. Patel
- Mr. Nilesh G. Patel



Principal Message

It is with immense pleasure to welcome you to the GDEC News Letter January 2018. GIDC Degree Engineering College is regularly publishing quarterly newsletter. The purpose of newsletter is to send a positive message to the stake holders. It provides a platform to publish activities of the college, achievements of students, faculties and staff members of the college and appreciate their curricular and co-curricular activities.

Our College is the host for the Navsari Innovation Sankul, covering the Navsari district, Bardoli, Mandvi and Palsana, which includes professional colleges like Engineering, Polytechnic, Pharmacy, Computer Applications and Management colleges. This is an innovative initiative to bring students, academicians and industries together on a common platform.

We aim not to just impart knowledge to the students but also inculcate in them wisdom, compassion and humanitarian spirit. We have multi-cultured students hence we teach them the importance of tolerance, discipline, values and integrity. The college provides an environment which is not only pollution free but is also immensely suited for the holistic growth and the development of the students. A pivotal role of education lies in shaping the personality of students into a healthy mind and happy soul, who is not only equipped with skills and aptitude required for academic excellence but helping him face the challenges of life in a balanced and harmonious way. Therefore, the system of education should work as a catalyst in making each student a balanced human being having his core strengths embedded in the learning experiences emanating from our rich socio-cultural roots.

GUJCOST set up Design Lab at GIDC Degree Engineering College which will be implemented soon. The purpose of Design Lab is to enhance the Research and Start up Innovations. College is in the process of Start up registration in association with Gujarat Informatics Limited (GIL) with the support of Department of Science & Technology (DST).

On 24th November '17, the Business Accelerator and Start-Up Cell of GIDC Degree Engineering College approved by Centre for Entrepreneurship Development (CED), Gandhinagar was officially inaugurated by Dr. Ram Nath Prasad Director, CED, Gandhinagar. To make awareness and motivate Entrepreneurs and Innovators the Workshop on "Start-Up and Innovation Prothoton" was successfully organized on the same day.

- Dr. K. N. Mistry

Dynamic Management

Name of the Member	Designation in the GES	Current Position/Organization
Smt. D. Thara IAS, M.Sc(Biotech), M.A(Public Administration)	Chairperson	Vice Chairperson & Managing Director, GIDC, Gandhinagar
Shri C. K. Akhania B.E. (E.C.), MBA(Marketing)	Member Secretary	Director (NA) & General Manager GIDC, Gandhinagar
Shri N. P. Vadhania (B.E Civil)	Member	Superintending Engineer GIDC, Surat
Dr. V. S. Purani M.E Civil, Ph. D.	Member	Joint Director, Commissioner of Technical Education, Gandhinagar
Dr. A. K. Dave B.E Mechanical, M.E, Ph. D.	Member	Ex. Director, SVNIT, Surat
CA. V. G. Desai M.Com, F.C.A.	Member	Chartered Accountant, Navsari
Dr. D. G. Naik M.A, M.Ed, Ph. D.	Member	Director, Naran Lala College Campus, Navsari
Shri Mahadevbhai Desai B.E Civil, LLB, MIE, MASCE(USA)	Member	CMD, Sthapati Designers, Navsari

Government Certified Course under the Sponsorship of PMKVY

Field Technician - Computing and Peripherals

Computer Engineering Department going to organize Government certified course on "Field Technician - Computing and Peripherals" under the Sponsorship of Pradhan Mantri Kaushal Vikas Yojana (PMKVY). This course is open for anyone with minimum qualification of SSC. The main objective of the Scheme is to impart Engineering Skills for 10 Lakh youth in the next three years. Course is instructed by Prof. Archana Nayak, Prof. Brijesh Patel, Prof. Mihir Mishra, Prof. Kushal Patel, Prof. Tejas Patel, Mr. Himanshu Patel and Mr. Nilesh Patel. This course will include following contents:

- MS Office, Internet, E-Mail
- Fundamental of Computer system
- Install, configure and setup the system
- Troubleshoot and replace faulty module
- Basic repairing of Computer Hardware
- Basics of troubleshooting Computer Software

Automotive Service Technician Level 3

Automobile Engineering Department going to organize Government certified course on "Automotive Service Technician Level 3" under the Sponsorship of Pradhan Mantri Kaushal Vikas Yojana (PMKVY). Key learning points are as follows:

- Assist in service, maintenance and actual repair of the vehicle.
- Wheel balancing, alignment, Engine performance testing, 2-3-4 wheelers maintenance, battery testing and charging, aerodynamic analysis, automobile air conditioning repairing and all other vehicle related maintenance work.
- Work requirements including various activities within the given time and set quality standards.
- Interact & communicate effectively with colleagues including member in the own group as well as other groups.
- Resources needed to maintain a safe, secure working environment.



Industrial Visit

Balaji Wafer, Valsad

Balaji Wafers began as a micro-retail enterprise in 1974, managed by Virani brothers at Astron Cinema, Rajkot. By 1982, initiative of Virani brothers, this grew to a home-based manufacturing venture. A decade later, the brothers set up an international standard automatic plant in Gujarat, with steps to increase capacity and quality. Balaji Wafers installed its first fully automatic plant. By 2014, Balaji Wafers captured a 70% market share in snacks market. Today the company employs more than 1800 personnel in their Rajkot and Valsad manufacturing facilities. Balaji has the capacity to manufacture 1,00,000 kg of potato wafers, along with 5,00,000 kg of savouries per day. The Mechanical Engineering department of GIDC Degree engineering has organized a one day industrial visit at Balaji Wafer, Valsad for 5th semester Mechanical Engineering students. This visit was organized with prior permission and guidance of Principal Dr. K. N. Mistry, H.O.D Prof. H. S. Patil. It was organized and conducted by Faculty members Dr. D. C. Patel, Prof. Ankur P. Desai, Mr. Hitesh Patel and Mr. Brijesh Patel. There were 82 students of 3rd year (5th semester) were benefited. The class was divided three groups for better understanding of every components, process. Industrial Visit was being a part of enriching Knowledge among Students also they got useful information of PLC, SCADA and industrial automation for automatic storage and retrieval system.



Western Region Load Dispatch Center, Andheri, Mumbai (POWERGRID)

Western Region Load Dispatch Center, Andheri Mumbai (POWERGRID) visit on 7 October, 2017 for 7th SEM electrical engineering students with faculty Prof. Dhruvang Gayakwad, Prof. Khyati Naik and lab Assistant Apeksha Desai.



Effluent Treatment Plant, Pidilite, Vapi

An Industrial visit to Effluent Treatment Plant, Pidilite, Vapi was conducted by the faculty members Prof. Mamta Patel, Prof. Manali Shah, Prof. Nimit Raval, Prof. Fenil Gandh in order to enhance the technical knowledge of Civil 3rd year students, 5th semester on 27th September 2017.



Automotive Research Association of India (ARAI), Pune

The objective of this visit for students is to get exposure to industry and modern technologies used in industry as well as to get practical knowledge of principles studied in theory of academic subject Vehicle Testing and Homologation.

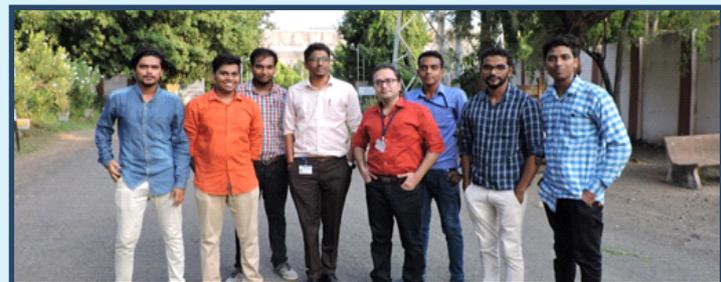
The Automotive Research Association of India (ARAI) has been playing a

crucial role in assuring safe, less polluting and more efficient vehicles. ARAI provides expertise in R&D, testing, certification, homologation and framing of vehicle regulations. 35 students of Automobile Engineering department accompanied by Prof. Toral Patel, Prof. Arpit Panchal, Prof. Ankit Patel & Prof. Mayur Jalanapurkar on 7th October, 2017.



Nuclear power Plant Corporation of India Ltd.

An objective of industrial visit is to provide students an insight regarding internal working of companies and PSUs. We know theoretical knowledge is not enough for making a good professional career. With an aim to go beyond academics, industrial visit provides student a practical perspective on the world of work. It provides students with an opportunity to learn practically through interaction, working methods and employment practices. Mechanical engineering department organized Industrial visit of 7th semester students (No. of Students 55) at "Nuclear power Plant Corporation of India Ltd" at Kakrapar & Hydro power station, Ukaion 4th October accompanied by two faculties named Prof. Dhaval S. Chaudhari, Prof. Krunal A. Hathiwala. Students can get actual ideas and practically seen How electricity produced from radioactive material and also by using water. Also, they have been study about different types of reactors, cooling towers, turbines and generators. Also, students learn about "how safe and cheap electricity produced from radioactive materials". This visit concludes subject of Power Plant.



ISRO Satellite Centre & LimraSoftTech Pvt. Ltd.

To get practical knowledge and to give an insight about the way things work in the real life scenario, students of 3rd Year and 4th Year of Computer Engineering Department, GIDC Degree Engineering College, Navsari visited to Bangalore from 19th-25th December assisted by Prof. Brijesh U. Patel, Prof. Bhumika H. Patel, Prof. Kushal D. Patel, Prof. Vibhuti P. Patel. A group of 48 members of GDEC, Navsari visited ISRO Satellite Centre and LimraSoftTech Pvt. Ltd.

The Indian Space Research Organisation (ISRO) is the space agency of the Government of India headquartered in the city of Bangalore. Student got knowledge about various types of Rockets and Satellites developed by ISRO. In addition, they got information about fuel and equipment used to developed GSLVs and PSLVs. Furthermore, students observe live project on "Chandrayaan 2" which is going to launch by ISRO.

Limrasoftech private limited having its registered office in Bangalore, India and with multiple offices in UAE, Kuwait and Saudi Arabia is a premier consulting and Software Development company.



Publication, Participation & Achievement

Applied Science and Humanity Department

Jury Member

- Dr. Shailesh S. Patel performed as an External Referee and Thesis Evaluator in PhD Viva-voce of two students of department of Mathematics, VNSGU, Surat.

Faculty Achievement

- Prof. Nisha S. Parekh has qualified Gujarat State Eligibility Test 2017 in the subject of English.
- Prof. Harshal Vashi has qualified Gujarat State Eligibility Test 2017 in the subject of Management.

Workshop Attended

- Prof. Harshit K. Naik had attended UGC sponsored National Workshop on "Problem Solving Techniques in Mathematics-II" organized at Department of Mathematics, Faculty of Science, M. S. University, Vadodara during 27th November-1st December.

FDP attended

- Prof. Ishita Panchal had attended FDP on Research Methodology working through SPSS & NET Examination on 9th & 10th December which was organised by GIDC RAJJU SHROFF ROFRL INSTITUTTE OF MANAGEMENT, VAPI.

Automobile Engineering

Students Achievement

- Student of 1st year Automobile Dept. Jagirdar Manthrach Bomi has won the Gold medal in State Boxing competition.

Paper Publication

- Prof. Mayur Jalanapurkar, Prof. Arpit Panchal, Prof. Ashish Jain, Prof. Vishwas Patel published paper on "Modification & Experimental Analysis of Motorcycle Exhaust System with Use of Exhaust Emission Reducer Material" in International Journal of Advance Engineering and Research Development (IJAERD) Vol. 4 Issue. 11 ISSN: 2348-6406 in November.

Workshops attended

- Prof. Toral Patel, Prof. Ashish Jain & Prof. Mayur Jalanapurkar attended one day workshop on "Start-Up & Innovation Protothon" on 24th November. Organized By: Business Counselling Cell GIDC Degree Engineering College Abrama, Navsari

Civil Engineering Department

- Prof. Rajan Lad, Prof. Mehul Gamit, Prof. Mihir Naik conducted Traffic survey for the Civil 3rd year students, 5th semester in Navsari city in order to enhance the knowledge of traffic control devices on 12th & 13th September.

Computer Engineering Department

Winter Training

- Ruju Desai, student of Computer Engineering department has started winter training at Atul Limited, Valsad since December.

Participation in Job Fair

- Kushang Oza, Sumit Patil, Nikam Rohit has participated in GTU - ITAP organized Centralized Placement Drive for Final Year students For "IMS Interactive Man power solutions Ltd."

Paper Publicaton

- Prof. Bhumika H. Patel, Prof. Hetal M. Patel, Prof. Pankti S. Naik, Prof. Tejas B. Patel, Prof. Vibhuti P. Patel have published a paper on "Analysis on Different FP Mining Algorithms" in International Journal For Research & Development In Technology, Vol.8, Issue 6, ISSN: 2349-3585 in December.

STTP attended

- Prof. Brijesh Patel, Prof. Bhumika Patel had attended STTP on "Android Programming & Mobile Application Development" during 26th-31st December at BVM Engineering College, Vidya Nagar.

Workshop Attended

- Prof. Archana Nayak, Prof. Kaushik Patel, Prof. Kaushal Kevadia, Prof. Hetal Patel, Prof. Brijesh Patel, Prof. Bhumika Patel, Prof. Pankti Naik, Prof. Avani Patel, Prof. Kushal Patel, Prof. Tejas Patel attended one day workshop on "Start-Up & Innovation Protothon" on 24th November. Organized By: Business Counselling Cell GIDC Degree Engineering College, Abrama, Navsari
- Prof. Archana Nayak, Prof. Kaushik Patel, Prof. Kaushal T. Kevadia, Prof. Hetal Patel, Prof. Bhumika Patel, Prof. Mihir Mishra, Prof. Avani Patel, Prof. Kushal Patel, Prof. Tejas Patel of the computer Engineering Department had attended FDP on "Internet of Things" on 27th September organized by Tata Consultancy Services (TCS iON | Digital Learning Empowering Learning Outcomes).
- Prof. Brijesh Patel, Prof. Pankti Naik, Prof. Vibhuti Patel of the computer Engineering Department had attended FDP on "Cloud Computing" on 25th October organized by Tata Consultancy Services (TCS iON | Digital Learning Empowering Learning Outcomes).
- Prof. Archana Nayak, Prof. Kaushik Patel, Prof. Hetal Patel, Prof. Bhumika Patel, Prof. Pankti Naik, Prof. Vibhuti Patel, Prof. Tejas Patel of the computer Engineering Department had attended FDP on "Data Science" during 13th

December organized by Tata Consultancy Services (TCS iON | Digital Learning Empowering Learning Outcomes).

- Prof. Hetal Patel, Prof. Bhumika Patel, Prof. Pankti Naik, Prof. Kushal Patel attended FDP on "Introduction to Machine Learning" on 16th-17th December organized by National Mission on Education through ICT (MHRD, Govt. of India), conducted by IIT Kharagpur with Remote Centre & code : SCET, Surat (1043)

Industries Visit for T & P

- Prof. Kushal D. Patel visited diverse IT companies at Navsari. He invites companies to visit our college for the campus placement for the students. In addition, he request companies to facilitate training to the students for their final year projects. Various companies responded with positive response and ready to come for campus as per their requirement in nearer future.

Electrical Engineering

Student Achievement

- Dev Desai and Hirenkumar Dilipbhai Solanki from Electrical Engineering Department selected in Internship program by L & T.

Online Course attended

- Prof. Dhruvang Gayakwad and Prof. Bhavin Trivedi have successfully completed NPTEL ONLINE certification course on "Design of Photovoltaic Systems" with 60% and 52% score respectively during July to October, 2017 (12 week).
- Prof. Ankur P. Desai completed NPTEL ONLINE Certification Course on "Advances In UHV Transmission and Distribution" during June-September.

Webinar Attended

- Prof. Ankur P. Desai have attended webinar on " Electro-Mechanical System Optimization using Simulation " with Registration no. 852149 dated 31st October.

Workshop attended

- Prof. Jay Desai, Prof. Dhruvang Gayakwad, Prof. Bhavesh S. Patel and Prof. Ankur Desai attended One day workshop on "Start-Up Innovation Protothon" conducted by Business Accelerator and Star-Up Cell, GIDC Degree Engineering College, Abrama, Navsari dated 24th November.
- Prof. Dhaval K. Patel and Prof. Ketan K. Lad Attend One day workshop on "Energy Conservation Awareness" sponsored by GEDA, Gandhi nagar on jointly organized by Electrical and Mechanical department of GDEC on 21st July.
- Prof. Dhaval K. Patel and Prof. Ketan K. Lad attended Two day workshop on "Introduction of Robotics" organized by e-Yantra IIT Bombay at SCET, Surat on 17th & 18th November under Lab Setup Initiative (eLSI).

Mechanical Engineering

Publications

- Dinesh Shinde, and Mistry K. N., "Asbestos base and asbestos free brake lining materials: comparative study", international Journal of Scientific world, 4(x) (2017). October.
- Dinesh Shinde, and Mistry K. N., Suyog Jhavar, Hollywood Singh, "Optimization of Automobile Suspension System Using Hybrid GSA Algorithm", International Conference on Mechanical Materials and renewable Energy organized by Sikkim Manipal University, Sikkim 8th-10th December.
- Prof. H. S. Patil , Prof. D. C. Patel, "Experimental Investigation on Process Parameters for Optimization of Surface Roughness and Material Removal Rate in Plano Miller Machine on Carbon Steel IS-2062 Material"; International Journal of Emerging Technologies in Engineering Research (IJETER); Volume 5, Issue 11, pp. 115-119, November; ISSN: 2454-6410
- Prof. H. S. Patil , Prof. D. C. Patel "Investigation on Effect of Machining Process Parameter on Surface Roughness and Material Removal Rate in Plano Miller for Alloy Steel SA-387"; International Journal of Creative Research Thoughts (IJCRT); Volume 5, Issue 4 November pp. 966-972, ISSN: 2320-2882
- Prof. H. S. Patil, Prof. D. C. Patel "Effect of Piston Crown Thermal Barrier Coating on Performance and Emission Characteristics in Petrol Engine"; International Journal of Recent Trends in Engineering & Research (IJRTER); Volume 03, Issue 11; pp.74-81 November [ISSN: 2455-1457]
- Prof. D. C. PATEL, Prof. H. S. PATIL "Design and Development of Low Cost Artificial Intelligence Vacuum Cleaner"; International Journal of Recent Trends in Engineering & Research (IJRTER); Volume 03, Issue 11; pp.59-67; November [ISSN: 2455-1457]
- Prof. D. C. PATEL, Prof. H. S. PATIL "Development of Arduino Programme Code for Autonomous Smart Vacuum Robot", International Journal of Emerging Technologies in Engineering Research (IJETER); Volume 5, Issue 11, pp. 120-126 November; ISSN: 2454-6410

Workshop Attended

- Prof. Krunal Hathiwala attended seminar on "Energy Conservation Awareness" at GIDC Degree Engineering College in on 21st July.
- Prof. Krunal Hathiwala attended seminar on "Start-Up & Innovation Protothon" at GIDC Degree Engineering College in on 24th November.

