

Resonance@GDEC

Plogging Run Activity under 150th Birthday celebration of Mahatma Gandhiji



On Occasion of 150th birth anniversary of Mahatma Gandhiji the Father of Nation, GIDC Degree Engineering College has celebrated with utmost reverence and Organizing FIT INDIA Plogging Run as it would be a befitting tribute to our Father of the Nation. Benefits of "plogging"-jogging while picking up litter. Plogging is a fitness trend that began in Sweden in 2016. It was given its name by Erik Ahlström, who is a ski and running enthusiast. The word combines "jogging" and "plocka upp," which is Swedish for "pick up". Cleanliness is a need of the present because it will keep you away from disease. With the help of plogging "the most important thing is that waste is being taken out of nature." Mahatma Gandhi had cleanliness and sanitation closest to his heart. Whether we resolve not to leave a speck of dirt in our village, city, street, area, school, temple, hospital, and what have you, by 2019 when we celebrate the 150th anniversary of Mahatma Gandhi? This happens not just with the Government, but with public participation. That is why we have to do it together." Students as well as Faculty member had play active role in cleaning our campus i.e. Offices, Department Building and laboratories and its surrounding areas.



Organizing Team of Plogging Run Activity under 150th Birthday celebration of Mahatma Gandhiji

Patron: Prof. Dr. N. D. Sharma

Programme Coordinators: Prof. Archana Nayak, Prof. Toral Patel

Department Programme Coordinator: Prof. Brijesh Patel (Computer Department), Prof. Kenal Tandel (Automobile Department), Prof. Jaldip Patel (Civil Department), Prof. Dhaval Patel (Electrical Department), Prof. Hariketani Patel (Mechanical Department), Mr. Dixit Patel (Automobile Department), Ms. Amruta Naik (Computer Department)

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GDEC Team

Prof. Dr. Neeraj. D. Sharma,
Principal

Prof. Dr. Hiralal S. Patil,
Head, Mechanical Engg. Dept.

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

Prof. Dr. Rakesh. J. Motiyani,
Head, Electrical Engg. Dept.

Prof. Dr. Bhavin G. Patel,
Head, Civil Engg. Dept.

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

Editorial Team

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

Unnat Bharat Abhiyan 2.0



In order to increase greenery and for a healthy environment Unnat Bharat Abhiyan coordinator Nilesh Parmar and his Team of GIDC Degree Engineering College, Abrama, Navsari has organized a display the UBA banner and Tree Plantation program at GIDC Degree Engineering College on 16th

August, 2019 under the auspices of UNNAT BHARAT ABHIYAAN 2.0 - an initiative of Ministry of Human Resource and Development (MHRD).

Principal Message

On behalf of GIDC Degree Engineering College and GIDC Education Society, I would like to greet and convey my heartily best wishes of the new year through this newsletter.

Present era of technology seeks different approaches from technocrats for the development where advancement supersedes conventional approaches of engineering and provides opportunities for interdisciplinary development views. Advanced technologies have shape out themselves by deriving various moulding clay of various interdisciplinary sciences. Therefore, a student of engineering in modern era cannot get assure himself/herself by getting university degree after four year curriculum based course, he/she would have to develop various allied as well as interdisciplinary skills for shaping out his/her overall career. Now those days do not exist where engineering student would be able to prove his/her eligibility by simply subject knowledge or by attractive communication skill. Industries seeking the employability skill in candidate and expecting multiple roles in after successfully placement.

As Final year students are going to complete their graduate studies in coming months and they will find themselves in the battle of competitive market of industries where commanded control on technical knowledge, employability skill, leadership, communication skill would be evaluated. Therefore it is very much necessary for students to prepare the mindset by co-ordinating and covering these all logically along with extra ordinary body language during interviews.

My best wishes for all students in current/coming semester and especially to final year students who have rooted themselves at our institute and going to represent GDEC to society after this semester. I appeal to all students of the final year for maximum participation in training and placement activities and initiate for the campus interviews during this semester to start the journey of career. Also wishing happy and enjoyable sports week and annual function day approaching in coming time.

I would also like to request all staff members to develop different ways in teaching to incorporate prevailing technologies and advancements, employability skills with your conventional curricular teaching for the shaping out the students during their learning journey at GDEC. Now need is to make engineering study more visual and simple from adhered complexity to sustain engineering students on their own toes in future.

Regards to all ...

Dr. Neeraj D. Sharma

Dynamic Management

Name of the Member	Designation in the GES	Current Position/Organization
Shri M. Thennarasan, IAS	Chairperson	Hon. Vice Chairman & Managing Director, GIDC, Gandhinagar
Shri B. C. Warli (B.E Civil)	Member Secretary	I/c. Director (Notified Area), I/c. Chief Engineer & Superintending Engineer (Public Health) & I/c. Superintending Engineer (Project) GIDC, Gandhinagar
Shri N. P. Vadalia (B.E Civil)	Member	I/c. Superintending Engineer-Surat, Executive Engineer-Surat
Dr. V. S. Purani (M.E Civil, Ph. D.)	Member	Principal, GEC, Valsad
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

Consultancy Activities

Civil Department

- Dr. Bhavin G. Patel, Prof. Nilesh Parmar and Prof. Pritesh R. Rathod Conducted NDT test and conditional assessment of Umargam GIDC structure.
- Prof. Vikunj Tilva and Prof. Sunil Jaganiya Conducted NDT test and conditional assessment of Sarigam GIDC structure.
- Prof. Pritesh R. Rathod and Prof. Jaldip Patel Conducted NDT test and conditional assessment of Chasa Muslim Welfare Society, Bilimora.

Computer Department

GIDC Degree Engineering College (GDEC) is in agreement with various reputed company like NSEIT Ltd., Bizzlon Management Solutions Pvt. Ltd., Sify Technologies Ltd., ACE Integrated Solutions Ltd., etc. Under this agreement Computer Engineering Department has successfully hosted multiple online examinations at GDEC premise.

The details of online exam/s held during past quarter from Oct-2019 to Dec-2019 are as mentioned below.

Computer Engineering Department continues to play significant role to generate revenue for the GIDC Degree Engineering College.

Sr. No.	Exam Conducting Authority	Host Company	Date	Candidate/Node Count	Revenue Earned
1.	GSECL	NSEIT Ltd.	13-Oct-2019	150	11450/-
2.	NPCIL	Satvat Infosol Pvt. Ltd.	07 to 11-Nov-2019	1629	105510/-
Total					116960/-



Organized Engineeria'19-An International Engineering Quiz Competition



Mechanical Engineering department has organized ENGINEERIA'19- AN INTERNATIONAL ENGINEERING QUIZ COMPETITION during September 2019, which was supported by the CADD Centre Training Services Pvt. Ltd. The CADD centre issued certificate of achievement to Nityang N. Patel, Abrar G. Khalifa, Darsh J. Naik, Anuj S. Patel, Prince D. Tandel, Harsh K. Mistry, Bhavik D. Tandel, Rutvik B. Tandel, Nikhil G. Sailor, Vishal M. Kansara, Riken G. Patel, Karan H. Patel, Keval H. Patel, Abhishek J. Pandey, Piyush J. Halpati for their good performance.

Entrepreneurship Development Program (Modulr-II) organized and hosted by GIDC Degree Engineering College, Abrama, Navsari sponsored by The Center for Entrepreneurship Development, Gandhinagar

Duration: 4th-27th September, 2019

- Conveners:** 1) Prof. Harshal G. Vashi, Assistant Professor & ED Cell In-charge
 2) Dr. Rakesh J. Motiyani, Associate Professor & Head, Electrical Dept.
Co-ordinators: 1) Prof. Dhruvang Gayakwad, Assistant Professor, Electrical Dept.
 2) Prof. Ketan Lad, Assistant Professor, Electrical Dept.
 3) Prof. Harsh Naik, Assistant Professor, Mechanical Dept.
 4) Prof. Dhaval Chaudhari, Assistant Professor, Mechanical Dept.
 No. of participants: 28 final year students of Electrical & Mechanical Engineering



Workshop on “Energy Conservation Awareness”



Electrical Engineering Department has organized Gujarat Energy Development Agency (GEDA) sponsored a one day workshop on “Energy Conservation Awareness” on 23.09.2019. The inaugural session of the workshop was graced by Shri A. C. Patel (Executive Engineer, Civil, GIDC Vapi), Shri K. N. Shah (Executive Engineer M & E, GIDC, Vapi), Shri B. N. Raval (Eminent Expert), Shri R. N. Pandya (Eminent Expert), Dr. S. S. Patel (Head ASH) and Dr R. J. Motiyani (Head EED). All the dignitary guests were facilitated & welcomed with the flower by the Head of departments during the inaugural session. Dr. R. J. Motiyani, Head of Electrical Engineering Department had delivered a welcome address & encouraged the students for Energy Conservation. Total 78 students and 15 faculty members of Electrical, Computer and Automobile Engineering have participated in this awareness workshop. The workshop was conducted by Shri R. N. Pandya and Shri B. N. Raval on behalf of GEDA. The workshop was coordinated by Prof. Ankur Desai, Prof. Rohit Damor and Prof. Bhavin Trivedi under the guidance of Dr. R. J. Motiyani.

Inauguration of ISHRAE Student Chapter

Mechanical Department of GIDC Degree Engineering College has continuously conducted various programs for the betterment of student's carrier. In that direction on dated 21-09-2019, mechanical department inaugurated and started “STUDENT ISHRAE CHAPTER” sponsored by ISHRAE Surat Chapter. Mr. Bharat Varia (President-ISHRAE Surat Chapter, Paurush Ghadiali (ISHRAE member) Dr. N. D. Sharma (Principal), Dr. H. S. Patil (Head), Dr. D. C. Patel (W/S In charge) and Prof. D. R. Tandel (Faculty Coordinator ISHRAE chapter) graced the inaugural session by their presence. About 100 students participated in the inauguration program. At present ISHRAE student chapter has 32 student members. On the day of inauguration ISHRAE president Surat Chapter elected Mr. Sunny Sing has a President, Mr. Mehul Tandel as a Treasurer and Mr. Vishesh Tandel as a Secretary for current year ISHRAE student Chapter and taken the oath from elected members to work for the benefits of students.



CONDUCTED SESSIONS ON BASICS OF INTELLECTUAL PROPERTY RIGHTS IN GTU ZONE 5”

Institute	Participants
N. G. Patel Polytechnic, Bardoli	68
R. N. G. Patel Institute Of Technology, Bardoli	117
Prime Group Of Institutions, Mangrol	123
Pacific School Of Engineering, Palsana	87
Shree N. L. Patel College Of Pharmacy, Umrakh	81
GIDC Degree Engineering College, Navsari	66

To fulfill GTU's target of organizing total 150 workshop on IPR as a part of celebrations of 150th Birth Anniversary of Mahatma Gandhiji Name of Speaker: Prof. Harshal G. Vashi, Assistant Professor ASH Dept. **Name of program coordinators:** 1)Dr. Rakesh J. Motiyani, Associate Professor & Head, Electrical Dept. 2)Dr. Shailesh S. Patel, Professor and Head, ASH Dept.



Industrial Visit

Western Region Load Dispatch Centre (WRLDC) of Power grid

Final Year Students of Electrical Engineering, Department have visited Western Region Load Dispatch Centre (WRLDC) of Power grid Corporation of India Ltd. Andheri, Mumbai on 29.09.2019. The visit was coordinated by Prof. Dhruvang Gayakward under the guidance of Dr. R. J. Motiyani. Faculties of Electrical Engineering Department Prof. Ankur P Desai, Prof. Khyati K. Naik and Prof. Dharmishta T. Patel have also visited WRLDC. Electrical Engineering Department of GIDC Degree Engineering is the one & only Department of Gujarat who is arranging WRLDC visit for the student during every academic year.

Balaji Wafers PVT.LTD, Valsad

Pre-final Year Students of Electrical Engineering, Department have visited fully automated Balaji Wafers PVT. LTD. Valsad on 23.10.2019. The visit was coordinated by Prof. Ankur P. Desai under the guidance of Dr. R. J. Motiyani. Faculties of Electrical Engineering Department Prof. Ankur P. Desai, Prof. Khyati K. Naik and Prof. Dharmishta T. Patel have also visited Balaji Wafers PVT.LTD.

ELECTRIC LOCO SHED, Valsad

Pre-final Year Students Electrical Engineering and Faculty members Prof. Dhaval K. Patel, Prof. Ketan K. Lad, Prof. Bhavesh S. Patel & Mr. Kamlesh Sonwane have visited "ELECTRIC LOCO SHED", Valsad on 26-09-2019.

Rotech Industrial Fans & Blowers, GIDC, Antaliya

Students of 2nd year Electrical Engineering Department have visited "Rotech Industrial Fans and Blowers" GIDC Antaliya. on 21.09.2019. The visit was coordinated by Prof. Bhavesh S. Patel under the guidance of Dr. R. J. Motiyani.

Nuclear Power Plant, Kakrapar

110 Students of 7th semester, Mechanical Dept. visited Nuclear power plant on 23-24 September 2019 with Mr. Daksh R. Tandel, Mr. Krunal A. Hathiwala, Mr.

Bruhad S. Naik and Mr. Dhaval S. Chaudhri . This Power Plant is installed of capacity of 220 MW pressurized water reactor with heavy water as moderator. The visit helped student to understand subject "POWER PLANT ENGINEERING" in more detail which enhances the knowledge of subject.

SUMUL Dairy, Surat, Gujarat

An industrial visit for 70 Students(55 from Mechanical and 15 from Automobile) to SUMUL Dairy - Surat was arranged by Mechanical and Automobile Engg. Dept. on 27th September 2019. Visit was coordinated by ISHRAE-Surat Chapter. Objective of the visit was to make students aware about real working environment. With the help of visit, students get acquainted with challenges and problems faced by Professionals. Students observed and understand the working of ammonia based chilling plant. In Dairy, chilling plant is used for preservation and pasteurization of products. Students also observed processing technique used for various products like Milk, Paneer and Ghee etc. Students also observed 15 bar capacity fire tube boiler. This visit surely enhanced student's knowledge of Engineering Thermodynamics, Refrigeration and Power plant engineering subject. Visit was coordinated by Prof. Toral V. Patel and Prof. Daksh R. Tandel.

BSNL, Surat (Regional Telecom Centre)

To get practical knowledge and to get an insight about the way things work in information and communication technology in real life, total of 51 students of Computer Engineering & Electrical Engineering visited Regional Telecom Centre (BSNL)Surat on 7th October, 2019 assisted by Prof. Tejas Patel, and Mrs. Amruta Naik of Computer Department and Dhruvang Gayakwad of Electrical Department. In each lab the lab instructor explained regarding the telecommunications equipment.1. Local Telephone Exchange, 2.Tax Exchange, 3. Broadband-DSLAM, 4. PCM/Optical Fiber Cable and System Lab/DWDM, 5. BTS - GSM System, 6. MDF.

Publication, Participation & Achievement

Automobile Engineering

Paper Publication

•Prof. Ashish Jain as a co-author has published a Paper titled "Development and Testing of Evacuated Box Solar Collector" along with Prof. Daksh Tandel who presented this paper in the National Symposium on "Cleaner Production & Green Technology (CGPT -2019)" held at CGPIT, Uka Tarsadia University Bardoli on 14th December 2019.

Faculty Achievement

•Prof. Ashish Jain joined Tribology Society of India (TSI) (An Affiliation with International Tribology Council, U.K.) as a Life Member (LM#5916).

Electrical Engineering

Paper Published

•Prof. Dhruvang Gayakwad & Prof. Jay R. Desai have Published a paper on "Analysis of Full Bridge Rectifier with Filter Capacitor" in International Journal for Scientific Research and Development (IJSRD).

Attended Workshop

•Prof. Ankur P Desai attended one week short term training program on "Advanced Engineering Optimization through Intelligent Techniques" (AEOTIT) during 25th-29th November 2019 at SVNIT, Surat.

Served as a Jury Member

•Dr. R. J. Motiyani has served as a Jury member at "Science Fair-2019-20" held at Prataap High School, Vansda sponsored by GCERT, Gandhinagar and District Education & Training Centre, Navsari on 26.09.2019.

Mechanical Engineering

Book Published

•Prof.(Dr.) H. S. Patil has published a book on Mechanical Vibration (ISBN No-978-93-89460-37-7) for Mumbai University with Tech-Neo Publication Pune in October-2019.

Workshop Attended

•Prof. Hitesh C. Rana had attended 1 day workshop on "Preparation of village development plan" under Unnat Bharat Abhiyan at IIT Gandhinagar on 7th December 2019.

STTP Attended

•Prof. Hitesh C. Rana had attended 1 week STTP on "Design modeling and simulation on advanced composite structures using FEA software" at SVNIT Surat during 9th to 13th December 2019.

Paper Publication

•Prof. Daksh R. Tandel has presented research paper on "Development And Testing of Evacuated Box Solar Collector" in National symposium on "Cleaner Production and Green Technology-2019" which is held at CGPIT, Uka Tarsadia University, Bardoli on 14th December 2019. Research paper is published in "Journal of Mechanical Engineering" (Society of Manufacturing Engineers) with ISSN number 0973-6867.

•Dr. D. C. Patel has published research paper on "A Review of Progressive

damage analysis and fatigue life prediction for degraded E glass FRP material' in International Journal of Technical Innovation (IJTIMES), ISSN : 2455-2585.

•Prof. Harsh R. Naik has published research paper on "Implementation of Lean Six Sigma Methodology to Healthcare Institution" in International Journal for Scientific Research & Development| Vol. 7, Issue 02, 2019 | ISSN (online): 2321-0613.

•Prof. Harsh R. Naik has published research paper on "Incorporating a 6th 'S'- Safety in 5S Lean Methodology" in - International Journal for Scientific Research & Development| Vol. 6, Issue 11, 2019 | ISSN (online): 2321-0613.

Computer Engineering

Internship

•Karan Katira, Neel Patel, Anjali Patel student of final year Computer Engineering Department started Internship at CASEPOINT PVT. LTD., Surat.

•Priya Naik of 3rd Year Computer Engineering Department, started Internship at Finlogic Tech Ind Pvt Ltd, Surat (NJ Group).

Workshop Attended

•Prof. Archana Nayak, Prof. Kaushik Patel successfully attended AICTE Sponsored two week FDP on "Deep Vision: Deep learning for Visual Computing" during 18-29 November 2019 at CSPIT, Changa.

•Prof. Bhumika Patel and Prof. Vibhuti Patel successfully attended five days FDP on "Cloud Computing with Amazon Web Services(AWS)" during 25-29 November 2019 at BVM Engineering College, Vallabh Vidyanagar, Anand.

Online Course Attended

•Prof. Kushal Patel successfully completed "Cyber Security course for Beginners-Level 01" online course organized by Fourthwall Technologies and Udemy.

•Prof. Kushal Patel successfully completed "SEO Tutorial for Beginners" online course organized by Daragh Walsh and Udemy.

Civil Engineering

Attended STTP

•Prof. Krutika Chauhan had successfully attended a one week short term training program (STTP) on "Research Methodology and Soft Computing Techniques for Civil Engineering" organised by C. K. Pithawala college of Engineering and Technology, Surat during 2nd - 7th December, 2019.

Attended FDP

•Dr. Bhavin G. Patel, Prof. Vikunj Tilva, Prof. Nilesh Parmar, Prof. Sunil Jaganiya and Prof. Pritesh R. Rathod have Attended Faculty Development Program (AICTE ATAL) on "Recent Advances in Structural Engineering (RASE-2019)" at SVNIT Surat during November 18-22, 2019.

International Conference

•Prof. Hemina Patel has participated and presented technical paper entitled "Sustainable Remedy of Indoor Air Pollution Control by Plants" in 4th INDIAN INTERNATIONAL CONFERENCE ON AIR QUALITY MANAGEMENT (IICAQM-2019) jointly organized by IIT Madras, IIT Bombay and University of North Texas USA on 18th - 20th December 2019 at IIT Bombay.

