

Resonance@GDEC

For limited Circulations Only



Major Initiatives at GDEC

Establishment of Incubation Center at GDEC

GIDC Degree Engineering College has received the In-Principle approval as an incubation Center with the guidance of Dr. K. N. Mistry (Principal) and processing of Ms. Archana Nayak (Head, Comp. Engg. Dept.), under the Electronics & IT/ITeS Start-up Policy of Govt. of Gujarat.

As a registered Incubator college will be able to incubate/host multiple start-ups and become part of their overall growth. Out of which more than 50% of start-ups will be from Electronics or IT/ITeS sector or from Bio-informatics and rest will be from other Sectors.

With this profound step GIDC Degree Engineering College welcomes all the eligible start-ups to approach for assistance and their overall growth.

Skill Up-gradation Centre at GDEC

As a major initiative Gujarat Industrial Development Corporation (GIDC) has funded Rs. 100 Lakhs towards installing 2 CNC Machines for the Skill Up-gradation Centre at Mechanical Engineering Department of GIDC Degree Engineering College, Abrama, Navsari. The work will be accomplished through Center for Entrepreneurship Development (CED), Gujarat.

This will serve as a booster to many industries to get skilled manpower from the South Gujarat Region.

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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. Rajesh Patel,
Head, Electrical Engg. Dept.

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

Editorial Team

- Prof. Archana M. Nayak
- Prof. Kushal D. Patel
- Prof. Avani P. Patel
- Mr. Nilesh G. Patel

Campus Placement Drive

Computer Engineering Department of GDEC has organized its 2nd Campus Placement Program for final year Students during 19th December 2016-7th January, 2017. Following companies have visited college campus during this program.

* this placement drive held at SSASIT College Campus, Surat



Sr. No.	Company Name	Date of Interview	No. of Students participated
1.	Softyoung Solutions, Vapi	22/12/2016	38
2.	Mango Software, Navsari	26/12/2016	18
3.	Bosleo, Valsad	02/01/2017	40
4.	Peacock Technologies, Surat*	24/12/2016	25

T & P Team : Prof. Archana Nayak, Prof. Kaushal Kevadia, Prof. Brijesh Patel, Prof. Kushal Patel, Prof. Vibhuti Patel and Prof. Harshal Vashi



Principal Message

It is with immense pleasure to welcome you to the GDEC News Letter January 2017. GIDC Degree Engineering College is regularly publishing quarterly newsletter. The purpose of newsletter is to publish the activities of the college, achievements of students, faculties and staff members of the college.

Our College is the host for the Navsari Innovation Sankul, covering the Navsari district, Bardoli, Mandvi and Palasana, which includes professional colleges like Engineering, Polytechnic, Pharmacy, Computer Applications and Management colleges. The industries related to these professions also meet regularly to discuss the innovations on the professional ground for the mutual benefits of the college students and the Industries.

A part from its technical education, college is also organizing extra-curricular activities which is giving an opportunity to the students to blossom in all the directions and helping them grow their talent. This year we had organized Faculty Development Programme on Design Engineering for the faculties as this helped them to acquaint with design thinking methodology. We had also organized technical workshop for students and faculties to give them basic knowledge about android applications and development. Also industrial visit was organized for the students to make them aware of the live projects and implementations going on in industries.

We have nearly 1300 students enrolled so far studying in computer, mechanical, automobile, electrical and civil engineering. College has motivated the professors as well as the students to explore the laboratory experimental test rig, to use them for the testing, consultancy, and research purpose for the Industries. By this, College will generate not only revenue, but it will enrich the experience of faculty and educate students for the real life applicability. College is being sponsored by the GIDC Education Society. GIDC itself has more than 1 million industries and 2 million professional working in different fields. The college has the target that when the current students enter in the final year, 75% students will get the placement before they pass out. Rest 25% students will be motivated for higher education.

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. We support the individual wellbeing of our students and provide an environment that allows every student to thrive as they work towards achieving their personal best performance. We are partners in learning with our students and seek to deepen their knowledge, provide enriching and innovative learning experiences, while also gently urging our students out of their comfort zone to attempt new challenges. The training is provided to the students such that they become globally acceptable personalities with communication skills, proper attitudes and aptitudes, problem solving capabilities and to work as team players.

Dr. K. N. Mistry

Dynamic Management

Name of the Member	Designation in the GES	Current Position/Organization
Smt. D. Thara IAS	Chairperson	Vice Chairperson & Managing Director, GIDC, Gandhinagar
Shri. P. R. Bhatt	Member Secretary	Director (NA) & General Manager GIDC, Gandhinagar
Shri H. R. Parmar 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

Online Exam

GIDC Degree Engineering College is in facility agreement with Tata Consultancy Services Limited since 01-09-2014. Under this agreement Computer Engineering Department has successfully hosted Online Examination for "National Bank for Agriculture and Rural Development (NABARD)" on 10-Nov-2016 with 42 candidate count. Revenue Earned by College for the same exam is Rs. 5780/-. Under the leadership of Ms. Archana Nayak (Head, Computer Engg. Dept.), computer department continues such revenue generating ventures.



FDP on Design Engineering

Two days Faculty Development Programme (FDP) on "Design Thinking Modules" was held during 18th-19th October. The main objective of this FDP was to promote the basic concepts of Design Thinking. In addition, this FDP has covered the whole Design Thinking process, suitable for all faculty members who want to acquaint with Design Thinking Methodology.

In this FDP we had called the Expert Prof. Bhasker V. Bhatt from the SCET College, Surat. From the GIDC Degree Engineering College Prof. Nilesh Parmar from Civil Engineering Department, Prof. Harsal Vashi from ASH Department, and Prof. Brijesh Patel from Computer department has Co-ordinated this workshop.



Workshop : Introduction on Android Application Development

3 days workshop on Introduction to Android Application Development was conducted by Computer Engineering Department for 4th year students during 8th -10th December 2016. All faculties of Computer Engineering Department along with lab assistants attended this workshop. In addition, 38 students of final year had taken part in this workshop. Workshop was coordinated by Department HOD, Prof. Archana Nayak. She has inaugurated workshop with brief information about Android and other mobile languages. Prof. Kaushik S. Patel, Prof. Brijesh U. Patel, Prof. Kushal D. Patel, Prof. Tejas B. Patel, Prof. Pragnesh Patel had delivered lectures on various topics regarding Android Applications. Students felt that this value added workshop on android mobile application development was very much useful for them and they got the basic idea for developing mobile application. In addition, students also got information regarding latest technology such as Firebase for android application development.



Navratri

On 7th October 2016, Electrical Department of our college celebrated Navratri festival. During this celebration student as well as staff participated in prayer and played traditional Garba.



FREE GATE MOCK TEST

It is indeed with great pleasure we cordially invited I.C.E. (GATE Institute) to conduct free online MOCK Test in our campus to consider students appearing in GATE 2017 on 21st October 2016. Computer Engineering Department successfully hosted online GATE MOCK test in coordination with I.C.E. GATE Institute, Surat to aware student about exam pattern in their respective branch for GATE 2017. In addition, this helped them to know their areas of strengths and weakness. Furthermore, this test helped students in knowing where they stand in ALL India level.

Around 89 students of GDEC college had participated in this test. It was conducted in 5 laboratories of Computer department. As a Test Center Administrator, Prof. Archana Nayak (Head of Computer Engg. Dept.) leads a dedicated team which is well equipped to deliver quality services. Overall program managed by Prof. Brijesh Patel and Prof. Kushal Patel.

Team Members : Hetal Patel, Mihir Mishra, Vibhuti Patel, Avani Patel, Pragnesh Patel, Tejas Patel, Nilesh Patel, Amruta Naik, Himanshu Patel, Viral Patel, Harish Patel



Value Adding Course on Solidworks Training

Mechanical Engineering Department organized a training course for mechanical/automobile engineering students and industry participant on "Value Adding Course on Solidworks Training" from 5th-17th December, 2016 for 100 hours duration. The training course was conducted as a part of consultancy work in CAD Lab on Solid works software. The training course covered the content- Solidworks Sketch Modelling, Advanced Part Modelling, Advanced Assembly Modelling, Surface Modelling, Sheet Metal, Mould Design, Weldments, Drawings, Solidworks FEA Simulations Solidworks Flow Simulations and Solidworks Motion Simulations. About 20 participants were participated in training. The faculties associated with the work were Dr. H. S. Patil, Dr. D. C. Patel, Prof. M. R. Patel and Mr. Hitesh Patel.

ONE WEEK SHORT TERM TRAINING PRGRAMME (STTP)

Mechanical Engineering Department organized a ONE WEEK SHORT TERM TRAINING PRGRAMME (STTP) On "Modeling and Simulation of Mechanical Systems Using Solidworks" during December 19th-23th, 2016. The program was sponsored by Gujarat Council on Science & Technology (GUJCOST), DST, Gandhinagar and supported by Khodiyar CAD Center (I) Pvt. Ltd., Ahmedabad. The training program was coordinated by Dr. H. S. Patil and Dr. D. C. Patel with Co-Coordinators-Prof. M. R. Patel, Prof. H. B. Patel and Prof. D. R. Tandel. About 23 participants were participated in the program from various institutes like Govt. Engineering College-Valsad, Laxmi Inst of Tech-Sarigam, S. S. Agrawal Inst of Tech-Navsari, C. K. Pithawala C.O.E. & T. Surat, Pacific School of Engineering-Palsana, etc. The objectives of the program was to provide a current state of the art in modeling and simulation and how solidworks software supports the design of mechanical systems for engineers and designers



Switch Global Expo-2016



The faculty members & students of GIDC Degree Engineering College from Electrical, Mechanical, Civil, Automobile and Computer department had visited the SWITCH GLOBLE EXPO-2016 at Vadodara on 8th & 10th October 2016. It was a

lifetime experience that different types of companies gathered at one place to show their innovative ideas. Students had observed lots of practical equipment which is very expensive and rare to see. At expo, experts explained their ideas in the easiest way so that students can easily understood and explore it into their project. Lots of technical topics were covered in this expo especially from electrical stream it was very useful. In Electrical lots of concepts are difficult to understand due to equipment's are not available to show due to their cost and size consideration. This expo was the place where companies explained their ideas with the help of prototype hardware. We are glad to visit such an electrifying SWITCH GLOBAL EXPO-2016.



Awareness Smart India Hackathon Workshop

5 students from Computer Engineering Department along with Prof. Kaushal Kevadia, Prof. Kushal Patel has attended workshop on "Awareness on Smart India Hackathon 2017". In this workshop, Principal Dr. K. N. Mistry received honor as a chief guest for the event. In this workshop, AICTE representative had introduced information regarding Hackathon competition which is going to be held in March, 2017. This competition is going to be organized as a national level competition and probably World's Biggest Hackathon. In addition, this competition has vision to develop visionary idea of Smart India, Digital India, Startup India, Skill India, etc. Final and pre final year students of the computer engineering showed their enthusiasm by participating in this workshop.

Industrial Visit

Visit @ERDA

The Electrical department of GIDC College has organized a one day industrial visit at Electrical Research and Development Association (ERDA), Vadodara on 2nd November, 2016 for B.E 3rd year Electrical Engineering students. The visit was organized with the prior permission and guidance of Principal Dr. K. N. Mistry, and HOD Prof. Rajesh Patel, electrical engineering. Along with the support of faculty members, students of department have taken hard efforts and initiative which made this visit a grand success. Prof. Dhruvang Gayakwad, Prof. Khyati Naik and Apeksha Desai accompanied with this industrial visit.

Visit @ VIKARTH TRANSFORMER

The industrial visit was organized by Prof. Dhaval K. Patel for 48 students of 3rd semester on 5-10-2016. It is relevant to their currently teaching subject D.C.Machine and Transformer. The Visit started at 11:00 AM. We reached the destiny at 12:00 PM. The class was divided in three groups for better understanding of every components and process, industry divided in different section of department like winding, assembly, maintenance etc.

Visit @ GETCO

Gujarat Energy Transmission Corporation Limited (GETCO) was set up in May 1999 and is registered under the Companies Act, 1956. The Company was promoted by erstwhile Gujarat Electricity Board (GEB) as its wholly owned subsidiary in the context of liberalization and as a part of efforts towards restructuring of the Power Sector. Student has great experience of GETCO, Navsari. These visits involves on field working and live inspections of Power system switch gears like CT, PT, Breakers, isolators, Transformers, PLCC, Bus bar systems, Earthling Switch.



It helps to Pre-final year students to understand practical Explorer of 220kv receiving substation and it's working. In addition, it gives information about controlling room, battery room and relay system for different kinds of power system faults and their control.

Around 45 students of 3rd semester accompanied by Prof. Ankur P. Desai, Prof. Bhavesh Patel & Mrs. Apexa Desai had been a part of this enriching experience.

Visit @ Power System Operation Corporation Ltd

Western Regional Electrical Power Grid covers geographically the states of Maharashtra, Gujarat, M. P, Chhattisgarh and Goa, U. T. of Daman and Diu & Dadra and Nagar Haveli. The central government companies primarily NTPC and NPC Ltd. own and operate many power stations in the western grid. The inter-state transmission system is owned and operated by POWERGRID also declared as the Central Transmission Utility (CTU) of India. The region also has a significant portion of generation, transmission and distribution network belonging to the private sector. During the visit students got to experience of WRLDC's routine MOCKDRILL, students were very delighted due to this new experience. At the end of the visit all the students were very indebted to faculty members Prof. Dhruvang Gayakwad, Prof. Khyati Naik and lab assistant Mr. Kamlesh Sonwane for arranging such a knowledgeable visit.

Visit @ BISAG

The students of Computer Engineering Department had been to an Industrial tour to BISAG, Gandhinagar on 22nd November 2016. BISAG is a State level nodal agency to facilitate the use of spatial and geo-spatial technologies for the planning and developmental activities pertaining to Agriculture, Land and Water Resource Management, Watershed Development, Forestry, Disaster Management, Infrastructure and Education.



Around 50 students of 3rd semester accompanied by Prof. Mihir Mishra, Prof. Avani Patel, Prof. Kushal Patel, Mrs. Amruta Naik had been a part of this enriching experience. At company site details of live projects and basic implementation and development techniques of projects were shown to the students. In addition, Students got knowledge of how live broadcast of information as well as educational training takes place with help of live camera was explained.

Visit @ CETP

The industrial visit was organized by Prof. Rohit Damor and Prof. Jay Desai, Mrs. Chetana Patel for 46 students of 3rd semester on 21-10-2016. The visit was for getting idea and information of how to filter the waste and polluted water. The Visit started at 09:00 AM. We reached the destiny at 11:00 AM.

Publications & Achievements

Computer Engineering Department

STTP Attended

- Prof. Kaushal T. Kevadia, Prof. Kaushik S. Patel Attended QIP short term course on "Advance in Big Data Analytics" during 12th-16th December, 2016 Organized By: Computer Engineering Department, SVNIT, Surat.
- Prof. Hetal Patel, Prof. Bhumika Patel attended three days workshop on "Ethical hacking and information security" from 30th September to 2nd October 2016. Organized By: Electronics and communication Engineering department, SCET, Surat.

Electrical Engineering Department

STTP Attended

- Prof. Dhaval K. Patel, Prof. Bhavin S. Trivedi, has attended STTP (Short Term Training Project) on "Advance in Electrical Machines" during 12th-16th December, 2016. Organized by: Electrical Engineering Department, SVNIT, Surat
- Prof. Dhaval K. Patel has attended Faculty Development Program on "DESIGN ENGINEERING" held during 18th-19th October 2016. Conducted by: GDEC, Navsari.
- Prof. Dhaval K. Patel has attended one day workshop on "Unmet Social Needs as Drivers of Innovations" on 22nd November, 2016. Organised by: GTU & in Collaboration with HONEY BEE NETWORK.
- Prof. Bhavin S. Trivedi, has successfully completed the course on "Design & Simulation of DC-DC Converters using Open Source tools" during Mar-Apr, 2016 Organized By: NPTEL.

Paper Publications

- Prof. Dhaval K. Patel, Prof. Ketan K. Lad, Prof. Rohit B. Damor, Prof. Khyati K. Naik presented paper in 6th International Conference (ICIRESM-16) titled as "Analytic Different Approach of Mathematical Modeling and Simulation of the DC Motor Busing MATLAB-SIMULINK". Organized by: Conference Info and Academic Science at (IETE), NEW DELHI on 9th October, 2016.
- Prof. Dhaval K. Patel, Prof. Ketan K. Lad, Prof. Rohit B. Damor, Prof. Khyati K. Naik PUBLISHED paper in International Journal Of Computer & Mathematical Sciences (IJCMS) (ISSN: 2347-8527) titled as "Analytic Different Approach of Mathematical Modeling and Simulation of the DC Motor Busing MATLAB- Simulink", OCTOBER 2016.

Automobile Engineering Department

Paper Publications

- "Effect of Length on Sound Reduction of the Expansion Type Muffler by Experiment and Flow Simulation" by Prof. Sunil R. Khokhar published in IJSRD-International Journal for Scientific Research & Development | Vol. 4, Issue 09, 2016|ISSN (online): 2321-0613

STTP attended

- Prof. Sunil R. Khokhar attended sttp on "Fundamentals of Energy management and application" during 10th-14th October, 2016. Organized by: SVNIT, Surat.
- Prof. Toral Patel, Prof. Ashish Jain, Prof. Ankit Patel, Prof. Arpit Panchal, Prof. Mayur Jalanapurkar attended One Week Short Term Training Programme (STTP) on "Modeling and Simulation of Mechanical Systems Using SolidWorks" during December 19th-23rd, 2016, organized by Department of Mechanical Engineering GIDC Degree Engineering College, Abrama

Workshop Attended

- Prof. Sunil R. Khokhar attended workshop on "ideation strategy for creative innovation" organized by prof. Anil Gupta, IIM-Ahmadabad on 20th December 2016.
- Prof. Sunil R. Khokhar attended workshop on "Unmet social needs as drivers of innovations" by prof. Anil Gupta, IIM- Ahmadabad on 22th November, 2016

Applied Science and Humanity Department

Faculty achievement

- Prof. Rajiv Singh reviewed a research manuscript #PPR-2016-0096 entitled "Interplay of Non-Conducting and Conducting Walls on Mhd

Natural Convection Flow in Vertical Microchannel in the Presence of Induced Magnetic Field" for the Propulsion and Power Research

- "Magnetic Moments of Baryons containing all heavy quarks in Quark-Diquark Model" by Kaushal Thakkar, Ajay Majethiya and P C Vinodkumar, The European Physical Journal Plus (2016). Springer Publications ISSN: 2190-5444 (Impact Factor: 1.521).
- "Excited State Mass spectra of Singly Charmed Baryons" by Zalak Shah, Kaushal Thakkar, Ajay Kumar Rai and P. C. Vinodkumar, The European Physical Journal A (2016). Springer Publications ISSN: 1434- 6001 (Impact Factor: 2.373).
- "Excited State Mass spectra of doubly heavy baryons" by Zalak Shah, Kaushal Thakkar and Ajay Kumar Rai, The European Physical Journal C (2016). Springer Publications ISSN: 1434-6052 (Impact Factor: 4.912).
- "Mass spectra and Regge trajectories of Λc , Σc , Ξc and Ωc Baryons" by Zalak Shah, Kaushal Thakkar, Ajay Kumar Rai and P. C. Vinodkumar, Chinese Physics C 40: 123102 (2016). Institute of Physics (IOP) Publications ISSN: 1674-1137 (Impact Factor: 3.761)
- "Excited State Mass Spectra of Ωc Baryon" by Zalak Shah, Kaushal Thakkar, Ajay Kumar Rai and P. C. Vinodkumar, Journal of Physics: Conference Series 759: 012076 (2016) Institute of Physics (IOP) Publications ISSN: 1742-6596.
- "Excited state mass spectra of baryon" by Zalak Shah, Kaushal Thakkar, Ajay Kumar Rai and P. C. Vinodkumar, American Institute of Physics (AIP) Conf. Proc. 1728, 020096 (2016) ISSN: 0094-243X
- "Magnetic Moments of Triply Heavy Baryons in Quark-Diquark Model" by Kaushal Thakkar, Ajay Majethiya and P. C. Vinodkumar, DAE-BRNS Symposium on Nucl. Phys. Held at Saha Institute of Nuclear Physics, Kolkata 61, 710 (2016). (ISBN: 818372079-X)
- "Regge Trajectories of Ξ_{bb} baryon in (n, M²) and (J, M²) planes" Zalak Shah, Kaushal Thakkar and Ajay Kumar Rai, DAE-BRNS Symposium on Nucl. Phys. Held at Saha Institute of Nuclear Physics, Kolkata 61, 674 (2016). (ISBN: 818372079-X)
- "A Comparative Study of Khuswant Sings Train to Pakistan and It's Film Version" by Prof. Nisha S. Parekh published in the Langlit: An International Peer-reviewed Open Access Journal in volume 3, Issue 2, November 2016. ISSN No. 2349-5189 (Impact Factor 4.23).
- "Multi- Facets of Women in Shobha De's Snapshots and Starry Nights" by Prof. Nisha S. Parekh published in The Criterion: An International Journal in English in Volume 7, Issue 5, October 2016. ISSN No. 2278-9529.
- "An Analytical Solution of Porous Medium Equation by Similarity Transformation" by Prof. Megha K. Tailor published in International Research Journal of Engineering and Technology (IRJET) in Volume 3, Issue 7, July 2016. ISSN NO. 2395-0056 (Impact Factor 4.45).
- "A solution of Fluid Flow Through Porous Medium Equation by Homotopy Perturbation Transform Method" by Prof. Mansi K. Desai published in International Research Journal of Engineering and Technology (IRJET) in Volume 3, Issue 7, July 2016. ISSN NO. 2395-0056 (Impact Factor 4.45).
- "The Impact of Job Satisfaction; While Performing Responsibilities" by Prof. Ishita V. Panchal published in International Research Journal of Engineering and Technology (IRJET) in Volume 3, Issue 7, July 2016. ISSN NO. 2395-0056 (Impact Factor 4.45).
- "A solution of Fluid Flow Through Porous Medium Equation by Homotopy Perturbation Transform Method" by Shailesh S. Patel published in International Research Journal of Engineering and Technology (IRJET) in Volume 3, Issue 7, July 2016. ISSN NO. 2395-0056 (Impact Factor 4.45).
- A paper entitled "An Analytical Solution of Porous Medium Equation by Similarity Transformation" by Shailesh S. Patel published in International Research Journal of Engineering and Technology (IRJET) in Volume 3, Issue 7, July 2016. ISSN NO. 2395-0056 (Impact Factor 4.45).

Grant Awarded for Minor Research Project

Dr. Rajiv Kumar Sing : Grant of rupees 200000 awarded for a minor research project on "Study on Magnetohydrodynamic flows under different physical conditions" by GUJCOST-Ghandhinagar, Gujarat

