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# THE GARDI TIMES

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# We never loose. either win or learn



Competition is an indispensable part of life on our planet, where only the strongest can survive. This is the law which outlined the whole idea of Darwin's evolution theory and the main principle of business practices. HPVC 2018 was the competition designed to involve the engineers in the research and development for the technical evolution of bicycles.

Engineers were asked to prepare the bicycles which are safe, sustainable and fast. The team "PRAVEG" from BHGCET had designed and made a semi recumbent bicycle for the competition held at DTU-Delhi. The entire project was guided by Mr. Dhaval Trivedi from the Department of Mechanical Engineering.

As usual by maintaining Gardi tradition, the team stood overall 2nd in the Asia-Pacific level by beating many IITs and NITs.



# Expertise for changing times



## Industrial Visit to Wind World Wind farm

Department of Electrical Engineering from B.H.Gardi College of Engineering & Technology has arranged an industrial visit for the students of second year along with Mr. Ketan Joshi at Wind World Wind farm, Samanaon 26th February 2018. It is one of the largest wind farm in Gujarat.

Visit started with the basic introduction and overview of farm by senior engineer Mr. Mangesh Ghogare. He gave brief idea about Samana wind farm. The power generated by Phase I of the project is being sold to Torrent Power Limited (TPL) under the terms of a 10-year power purchase agreement. The power generated by Phase II is being sold to Gujarat Urja Vikas Nigam Limited (GUVNL) under a long-term power purchase agreement.

The purpose of our visit was to get a practical view about Electrical Power Generation by Wind Mill, Substation and it's equipment like- AC Generator, Rectifier, Inverter, Switch yard, Isolators, Circuits breakers, CT, PT, Transformer etc.

## Wind farm is divided into two main sections:

1.Wind mill ( Machine Section)

2.Substation

First students were taken inside control room and given basic safety rules where Mr. Mangesh Ghogare explained all panels and its application in control system after that all students went toward switch yard were Mr. Abhay Krlani (Substation Incharge) explain all switch yard equipment like Lighting Arrester, isolator, Busbar, SF6 Circuit Breaker, CT, PT, Main Transformer capacity of 100 MVA and its cooling & protection systems, etc.

At Last visit ended by giving thanks speech by the student Mr. Kevadiya Nemishand token of love on behalf of B. H. Gardi College of Engineering and Technology to Senior Engineer Mr. Mangesh Ghogare.



Students getting knowledge of control room



Students getting knowledge of switch yard



Students at Wind Mill



Mr. Ketan Joshi giving token of love to Senior Engineer Mr. Mangesh Ghogare

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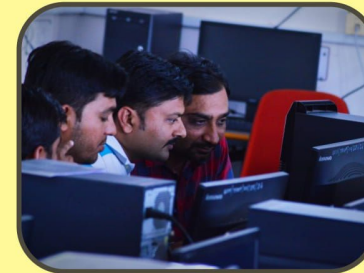
Mr. Ketan Joshi giving token of love to Substation incharge Mr. Abhay Karlnani

# Small is big close-up



## The more I train, the more I realize I have more speed in me

Prof Manish Patel, Head of Department from the Department of Electronics and Communication Engineering and Prof Gaurav Joshi, Head of Department from the Department of Electrical Engineering from B. H. Gardi college of Engineering and Technology, Rajkot attended 2-days workshop on SPECTRUM SENSING TECHNIQUES during 23rd & 24th Feb 2018 organized by Government Engineering College, Rajkot sponsored by GUJCOST. Prof Preeti Jani from SPIT, Mumbai was the facilitator of the expert session.



Topics like Software Defined Radio, Cognitive Radio, Various Spectrum-hole Sensing techniques, Python and Machine Learning were the Highlight of the workshop.



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# Train, Don't strain



## Enhancing the technical skill of the students by interacting with industry delegates

B. H. Gardi College of Engineering and Technology organized "Final Year Project Fair" on 13th April, 2018 which was a combination of Technology and knowledge sharing. Total 153 student teams presented their project at project fair. The fair was best owed by the esteemed presence of more than 25 industrial experts. It was a marvellous experience for students who presented the project and also for the attendees of the activity who grabbed maximum out of it. Industrial Delegates enjoyed thoroughly and shared their valuable knowledge with students and faculties.



Department of Computer Science Engineering



Department of Information Technology



Department of Electrical Engineering



Department of Electronics and Communication Engineering



Department of Civil Engineering



Prof. Dipika Gosai observing the project



Electrical Department with the experts



Expert witnessing students' project



Department of Computer Science Engineering



Trustees observing Projects



Expert giving guidance

# Balanced modes. Perfect life



The department of Civil Engineering had been envisaged for training in terms of Industry Interaction, Workshop and Expert talk. The Head, Prof. Vimal Patel had always encouraged and helped the faculties to attain the training session organized at different IIT's and NIT's.

## Faculties at STTP AT IIT RAM, Ahmedabad

The faculties Prof. Gaurav Jagad and Prof. Natasha Sagar attended the Short term training program on "EMERGING TRENDS ON PAVEMENT GEOTECHNICS" from 30th May, 2018 to 4th April, 2018. The Short term training program included innovative design ideas of pavement and failure case studies, which were delivered by faculties of SVNIT, SURAT and IIT Gandhinagar.

The training included the one day site visit to construction of retaining wall and laying down of geo grids, visit to working bituminous mix plant, Ready Mixed Concrete plant, site visit of RCC pavement construction with advanced equipments.

The faculties also gained the knowledge of the consultancy practices and use of the advanced equipments in their laboratories.



## Glances of the visit:

### OUTCOME:

- The faculties gained the knowledge of consultancy practices in bitumen.
- The faculties gained the knowledge of revision in codal practices of pavement design,
- The faculties gained the knowledge of advancement of use of piezoelectric materials in pavement and soil strengthening through nanotechnology.



# Nothing happens until something moves



## EXPLORE PHYSICS

EXPLORE PHYSICS-2017 was organized by the Department of Humanities and Science for 1st Semester students on November 6, 2017. The students were supposed to present a poster related to Nanophysics and Advanced Engineering materials. A poster speaks for itself. Poster presentation offers the opportunity to practice presentation skills. The event was conducted by Prof. Toral P. Zinzuwadia.



### Feedback:

The topic on which they were supposed to present a poster was new to them and they worked hard to select as well as present their information.

The poster was prepared in the group of 3-4 students.

## Glances of the visit:

### Outcome:

This event enabled the students to explain their concept in different ways, and see that the information is well received. At the same time they are honing their ability to communicate verbally, they can also hone their ability to present information visually in simple way.



# Dreams seldom materialize on their own

## Old Guard Poster Presentation

This was a technical event that asked the students to engineer a poster on a technical topic with salient features of design and manufacturing.

Final year student, Atharva Shukla from the Department of Mechanical Engineering had prepared a technical poster on “Anyway commuter Modern day floating vehicle” under the guidance of Mr. Dhaval D. Trivedi, the faculty from the Department of Mechanical Engineering. Atharva secured 3rd rank and the amount of \$100.

