



# THE Gardi TIMES

time to step ahead...

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# Reformation Function

## NSS UNIT

"A work of service is the unique result of a unique temperament."

**N**SS [NATIONAL SERVICE SCHEME] is an Indian Government sponsored public service programme conducted by Ministry of Youth Affairs & Sports, Government of India launched in the Mahatma Gandhi's Birth Centenary Year 1969, as a Student Youth Service Programme.

A new energy, a renewed initiation and an assortment of varied ideas marked the reformation ceremony of the NSS unit of B.H. Gardi College of Engineering & Technology on 27th April 2016; wherein the team formally announced its forthcoming activities.

### LIGHTNING THE LAMP

The function started in a traditional way by lighting the lamp, by the student volunteers.

### INTRODUCTORY SPEECH

The attention of the volunteers of B.H. Gardi College was taken by Prof. N.B MEHTA (electrical dept.; PO of NSS) with a



brief speech regarding what is NSS and why in BHGCET. He welcomed the new NSS volunteers and inspired them to contribute their share for the welfare of mankind.

### NSS CLAP

The student coordinators came on the dais and gave instructions about importance of NSS CLAP. It was a simple explanation for the volunteers that the

NSS CLAP are not for the ordinary purpose. NSS CLAP is deserved for those people who truly contribute themselves to the society.

### INTRODUCTION ABOUT NSS

Function was further taken over by two student volunteers- PALAK CHANDARANA AND ZEEL BUDHBHATTI. They described the objectives of NSS, major and minor activities which had been successfully accomplished by the NSS units of India and various facilities given by the



# 'Milaap- Yado no Kalrav' An Alumni Meet 2016

*"Those truly linked don't need correspondence. When they meet again after many years apart, their friendship is as true as ever."* - Tushar Bhoraniya (MBA 2010-12 Batch Alumni)

*"M H Gardi MBA gives students the confidence to aim high and to be*

to know about their accomplishments in professional life. All of them were recharge their memories of Alma Mater and naturally were thrilled to be back in the campus again. About twelve alumni attended the Meet with their family and they very proudly took their families around the campus and



*themselves in all situations."* - Arjun Sagpariya (MBA 2013-15 Batch Alumni)

The Above quotes are the reflections of feeling that former students shared for the Alma mater Gardividyalpith MBA Department on the annual Alumina meet 2016.

Kum. M. H. Gardi School of management organized its most awaited Alumni Meet on 24th April 2016. The Meeting was attended by 178+ alumni of batches of Post graduated in year 2010 (First PG Batch) to 2015. It was a great pleasure



showed the places where they lived and spent time.

The event was started by the video that visualized the contemporary study, students, campus and various activities by the department. It was followed by various presentations of



MBA and BBA (AM) current batch students like group dance, traditional Gujarati & Rajasthani dance, comedy drama, one minute games, and clues finding game based on unforgettable classical songs.

The Key attraction of this event was



Mr. Bhaumik Bhatt a renowned motivational speaker and body healer who has given LIVE sessions from the audience on Power of Unconscious Mind. It was a fabulous experience for the students to deal with stress, willingness and Motivational Boost up.

The students were awarded in different categories.

1. Co-curriculum Award - Mr. Arjun Sagpariya
2. Motivational Student Award - Mr. Hardik Pansara
3. Best Student Employee Award - Mr. Alpesh Sanandiyaa and Ms. Urvisha Parecha
4. Entrepreneur Award - Mr. Harshad Kalariya



5. Student of the Year Award - Ms. Daksha Mangukiya.

At the end of ceremony Hon. Chairman Shri D.V. Mehta Sir, C.E.O. Mr. Jay Mehta Sir and MBA Director Dr. Vishal Khasgiwala had given the motivational speech to the students and wished them all the best for the future. Successful Management of this event has been carried out by Asst. Prof. Ashita Mansuriya, Asst. Prof Nilesh Ankleshwaria, Asst. Prof. Sameer Dholakiya, Asst. Prof. Viral Raval, Asst. Prof. Dipesh Trivedi, and Asst. Prof. Kanchan Parmar.



# Cricket Tournament

Kum M.H. Gardi School of Management was celebrated sports days as **Friends Forever's Cricket Tournament** on 15th and 16th March 2016 at Gardi Vidhyapith Campus. There were four team participated (1) Gardi Riders (2) Gardi lions (3) Gardien (4) Gardi worriers. All Faculty and students of



Kum M.H. Gardi School of Management MBA & MAM Department actively participated in each team. For qualify round 2 match had played among the each team and then final match played between Gardi Riders Vs. Gardi lions. Gardi Riders had won the toss and scored 61/4 in 10 overs and a Gardi lion was scored 48/10 in 9 overs. So **Gardi Riders was champion in Friends Forever's Cricket Tournament.**



Excess use of the painkiller drug **Diclofenac sodium** in cattle treatment is the main reason to decline of the vultures. The endangered birds eat the remains of the drugged animals and suffer kidney failure and visceral gout, which is usually fatal. Government bans the production of drug for veterinary use in 2006 but the drug is still easily available in the veterinary market. Even if the government ban is fully implemented, it will take many years for the vulture population to recover. Vultures breed slowly and take five years to reach adulthood.

## WHAT WE CAN DO?

We can communicate the society on the above issue and move towards completely ridding the market of diclofenac for veterinary use. We can show farmers that there are alternative drugs that are just as effective in treating cattle. Just like 'Save the sparrow', 'Save the tree' likewise we can campaign for vultures too and anticipate with wall painting, drawing competition, class projects, village awareness programs etc.

Let we move up for the natural sweeper with our sincere efforts and bring back the vulture in our culture.

- Nilesh A. Ankaleshvariya (Asst. Professor)

# 'Provoke The Vulture Crisis'

'Disappear like a Dodo bird' or 'As dead as a dodo' are some common proverb that we habitually use but did you know that Dodo bird is not stood first for the sudden extinction. The fastest population collapse of any bird species in recorded history is South Asia's (India, Pakistan and Nepal's) vultures. Nine species of vulture can be found living in India. Today, most are in danger of extinction. Three species of vultures have declined by 97% and one of the species by 99.9%. Their decline has been quicker than that of any other wild bird, including the dodo.

In the 1980s there were 8 crore vultures are found in India while today its population is only 5500 in entire South Asia. Vultures previously played an important role in public sanitation in India and their disappearance has

resulted in an explosion of rats and wild dogs and the spread of diseases like Rabies, Anthrax



and Plague resulting in an estimated cost of up to Rs. 1700 billion. In India, 30,000 people die from rabies each year, more than half the world's total while around half a million Indians are treated for rabies each year, at a cost of Rs. 1500 (US\$22) per person, while the average wage in India is Rs. 120 (US\$1.80) per day.

## MAIN CAUSE OF THE VULTURE POPULATION DECLINE



# An Industrial visit at **Rajoo Engineering**

**K**um. M.H. Gardi School of Management, an institute known for its excellent practical education and learning strongly believes in learning by doing. Following same, students were sent to industry, Rajoo Engineering to gain the practical knowledge which helps them in creating the bridge between their theoretical knowledge and market practicality.

This visit to the company was as a part of learning the subject **Production and Operations Management** and understanding it with the practical aspect. There **Mr. Hiren, Sales engineer** addressed the visitors focusing on the matters of layout, process, material movement,



assembling, QC and lot more. By visiting such giant plant students have learnt lots of fundamental things about operations and production management, like what is the setting of

layout, how the company manage and move the material, what are the measures of quality, how they arrange the transportation, etc.

It was really a nice experience for all

the students as well as faculty member to see the reality which they have understood in classroom as theory. The visit was organized and planned by Asst. Prof. Samir Dholakiya.

# Visit to **Rajkot Commercial Cooperative Bank Ltd.**

**K**um. M.H. Gardi school of Management had organised a visit to the local co-operative bank for MBA 4th and MAM 4th students as a part of their syllabus. This visit was organised by Asst. Prof. Nilesh Ankleshwariya and Asst. Prof. Viral Raval.

Mr. Purushottam Pipaliya, the CEO and G.M. of RCC bank had taken the lecture about corporate governance and how the co-operative bank works and how it can be registered. He informed all the students regarding 3 types of banks and what are the social

responsibility, internal banking method, grievance handling method, Lokpal, Audit System, MIS system, CRR, do's & don't, interest on Saving and Fixed deposit of RCC bank. He also informed the slogan of RCC bank, "BANK APNA DWARE".





# Women Empowerment

## in India

Women Empowerment itself elaborates that Social Rights, Political Rights, Economical stability, judicial strength and all other rights should be also equal to women. There should be no discrimination between men and woman. Women should now there fundamental and social rights which they get once they born.

There is no denying the fact that women in India have made a considerable progress in almost seven decades of Independence, but they still have to struggle against many handicaps and social evils in the male-dominated society. Many evil and masculine forces still prevail in the modern Indian society that resists the forward march of its women folk. It is ironical that a country, which has recently acclaimed the status of the first Asian country to accomplish its Mars mission in the maiden attempt, is positioned at the 29th rank among 146 countries across the globe on the basis of Gender Inequality Index. There has been amelioration in the position of women, but their true empowerment is still awaited.

Therefore, inclusion of 'Women Empowerment' as one of the prime goals in the eight Millennium Development Goals underscores the relevance of this fact. Thus, in order to achieve the status of a developed country, India needs to transform its colossal women force into an effective human resource and this is possible only through the empowerment of women.

### EXTENDS OF WOMEN EMPOWERMENT

- There should be respect and dignity towards Women.
- Have total independencies of their own life and lifestyle inside the



home and also outside at their work.

- They should make there decision, by there own choice.
- They should have a high social respect in society.
- They have equal rights in society and other judicial works.
- They should not be discriminated while providing any type of education.

the yard, but by the inch, it is just a cinch. All we need is a concentrated effort focused in the right direction that would rest only with the liberation of women from all forms of evil.

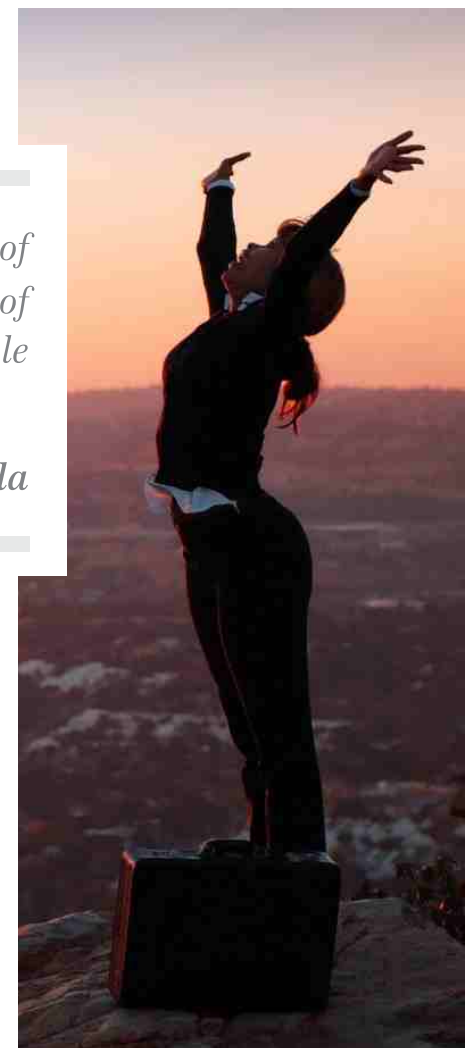
- Fatema T. Bharmal (MBA Semester-II, MHGSM, Rajkot)

*“There is no chance for the welfare of the world unless the condition of women is improved; it is not possible for a bird to fly on only one wing.”*

- Swami Vivekananda

- They should select there own economic and financial choices by there own.
- There should not be any discrimination between woman and man while giving jobs and employment.
- They should have safe and secured Working location with proper privacy.

Thus, the idea of women empowerment might sound hard by



## Round Table Conference on Smart City Research under GSSCD at GTU, Chandkheda



### OBJECTIVE

To discuss and interact with various experts on various area regarding smart city development.

### INTRODUCTION

As B.H. Gardi college of engineering and technology is recognized as a Research partner of Graduate school of smart city development(GSSCD), The faculties Prof. Vimal Patel from Department of Civil Engineering, Prof. Hardik Moliya from Department of Mechanical Engineering and Prof. Rakesh Vasani from Department of Electrical Engineering have participated in Round Table Conference on Smart City development held at GTU, Chandkheda on 26th April, 2016.

### There were interactive sessions on:

1. Importance of Research Activities by Dr. Akshai Aggarwal, Hon'ble Vice Chancellor, GTU.
2. Action Plan for Round Table Conference by Prof. Rajnikant Patel, Honorary Director, GTU-GSSCD
3. Presentations by (i) GTU Research Partner Institutes/Colleges & (ii) GTU Principal Investigators of ongoing Research Projects at Smart City Sensor Lab
4. Concluding and Way Forward by Mr Sudhir Krishna (IES), and other guest.

- Prof. Hardik G. Moliya, Prof. Rakesh Vasani

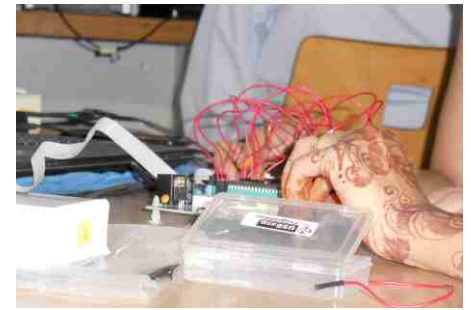
## Hands-On workshop on AVR Microcontroller & Interfacing

### OBJECTIVE

Embedded system (one of the fastest growing field in electronics engineering) industries demand sound knowledge of various kinds of microcontroller from the students. So to fulfill the industry requirement and to make student industry compatible, EC department of B H Gardi college of engineering and Technology, had organized a 2 day workshop on AVR



Student watching the output on simulator software



Students debugging the circuit for getting output

- Understand the internal features of AtMega 16 like Enhance I/O capabilities, ADC etc.

### VARIOUS PERIPHERAL DEVICES INTERFACED

- LED
- LCD
- ADC
- Temperature sensor



Expert helping students to solve the problem

Microcontroller which was conducted by Mr. Bhavin Bagtheriya.

### OUTCOME

By attending this workshop students were able to

- Program AVR (AtMega 16) Microcontroller in Assembly as well as C language
- Interface various peripheral devices with AVR Microcontroller

### STUDENT'S FEEDBACK

In this workshop, we learnt many internal features of AVR microcontroller which can't be found in 8051 or any other low level microcontroller.

We have enjoyed this workshop a lot. Specially interfacing of inbuilt peripherals of AVR microcontroller was amazing.

- Prof. Ashish Mehta



# Visit Report off Home for   The Mentally Retired Children

"We don't have costly smartphone, don't have premium shoes or not have enough pocket money to celebrate the birthday in McD were some common complains in life earlier, but now..... after this visit we felt fortunate enough ourselves like others who have care from parents, sound ability to judge the world and we realized that we are in good condition as we look like others," said by Harsh Parmar, MBA 4th Semester students when we'd complete the charity visit of "Home for mentally retired children" at Rajkot on 11th February 2016.



When we passed through crystal mall road Rajkot we've always surprised to see some children those who are roaming around in premises of mentally retired home. Simply questions are raised in our mind about the children and their behavior. Sometimes they play individually, sometimes in group in the ground, some time they seated down and seem to pray and some time they are engaged to clean the ground and watering the trees. To channelize our curiosity we'd visited the home earlier and met the Superintendent of the home. We knew at the time that it's a state government institution under the social defense department. The



home having at present 60 mentally retired children of different ages. Nevertheless, they are mentally retired as well as orphans too. We discussed the details and found the necessity of some small toys and sports equipment at that time. We decided to collect the amount through student contribution and purchase the same. We also decided the amount to contribute per



student is minimum Rs. 1 to maximum 50 Rs. All the MAM and MBA students contributed wholeheartedly and it's resulted in the huge purchasing to donate.

We'd purchased Set of basketballs, footballs, volleyballs, cricket bats, tennis balls, Ping-Pong balls, badminton sets, teddy bears, soft toys,

whistles, small toys chalks and slates. We visited the children home and after a short introduction of ourselves we had a conversation with children and

tour to the home and realize the life of those angels. Doesn't its make difference whether they have the age of ten or thirty five, all are mentally have a same age like an ordinary three year child.

We served them all the purchased sports items, toys and we also served them Ice-creams to make them joyous and pleased. We really spend a memorable time with them like we played with them and melt ourselves we enjoyed cricket, footballs and other games with them. We also shared the learning of alphabets and drawings. Some Childs are really creative to free hand and drawings.

Almost two and half hours we spend over there and earned the values of innocents, joy and happiness from theirs. We all decided to organize such kind of events frequently so that we realize and keep in our mind the worth of facilities and wealth that we have.

- Nilesh A. Ankleshwaria (Asst. Professor, MBA Dept.)





## Industrial Interaction at Austin Engineering Company Ltd.

**Objective: To strengthen the skill domain of faculties, and students.**

Prof. Punit Vyas of Mechanical engineering department had interacted with Mr. Hitesh Ajmera planning manger of Austin Engineering Company Limited on 8th of March, 2016. AEC is an ISO 9001:2008 and ISO/TS 16949:2009 certified manufacturer of widest range of ball & roller bearings and its components in India without any foreign collaboration, located near Junagadh in Gujarat.



Industry interaction with Mr. Hitesh Ajmera at Austin Engineering Company LTD.

They have discussed the required skill from the students to fulfill the need of industry particularly for bearing manufacturing.

### OUTCOME

1. Got knowledge of all the necessary processes starting from raw material to final products.
2. They are ready for students training, final year project work, expert talk as well as placement.

- Prof. Punit Vyas

## Industrial Interaction at Castech foundry Pvt. Ltd.

**Objective: To strengthen the skill domain of faculties, and students.**

Prof. Punit Vyas of Mechanical Engineering Department has interacted with Mr. Ravi Thumar HR manger of Castech Foundries Pvt. Ltd. on 8th of March, 2016. CASTECH India has more than 20 years of experience with incredible technical expertise and casting manufacturing skills. As the leading casting manufacturers and exporters in India located near Junagadh in Gujarat State.

They have discussed the required skill from the students to fulfill the need of industry particularly for casting of components.

### OUTCOME

1. Got knowledge of various casting processes
2. They are ready for students II as visit.

- Prof. Punit Vyas



Industry interaction with Mr. Ravi Thumar at Castech foundry Pvt.Ltd

## Industrial Interaction at Synnova Gears Pvt. Ltd.

**Objective: To strengthen the skill domain of faculties, and students.**

### INTRODUCTION

Prof. Punit Vyas and Prof. Parag Paija of Mechanical Engineering Department have interacted with the technical person of Synnova Gears Pvt. Ltd. at shaper zone, near toll plaza, Rajkot. The industry is leading manufacturing unit of gear. The company manufactures quality gear products for tractor, farm, automotive and heavy industries. Spread across a sprawling area of 22,000 sq. mts.

They have discussed the required skill from the students to fulfill the need of industry.

### OUTCOME

1. Got knowledge of almost all material and manufacturing processes as well as measuring methods.
2. They are ready for students visit as well as training.

- Prof. Punit Vyas



Industry interaction with Mr. Prakashbhai at Synnova Gears Pvt. Ltd. at shaper, Rajkot.



# Industrial Interaction @ Jackgon Co.

**Objective: To learn and explore the practical knowledge about various types of fasteners.**

## INTRODUCTION

Department of Mechanical Engineering has arranged industrial interaction for 4th semester students along with Mr. Dhaval Modi at Jackgon Co, Rajkot. Jackgon Co is one of the leading manufacturers of Cold Forged Components & High Tensile Fasteners used in the field of mechanical as well as automobile. Mr. Mitesh (Managing Director) has guided the students about products & also different methods of production. The interaction was helpful to know about various types of fasteners used in various sectors. Students understood the inter-relation of manufacturing process, mechanical measurement &



Industrial Interaction Memories with Mr. Mitesh (Managing Director) Jackgon Co, Rajkot

metrology subject.

## FEEDBACK FROM STUDENTS

1. The interaction was very helpful for us. We came to know about various

manufacturing processes like forging, rolling etc.-Sanjaysinh Gohil (4th Mechanical)

2. During this interaction gone

through the actual working of machines and processes which help to understand the subject Manufacturing Process. - Kishan Bhensadadiya (4th Mechanical)

# Industrial Interaction at Rajkot Metlab Services

Department of Mechanical Engineering arranged Faculty interaction at Rajkot Metlab Services on 28th Feb. 2016. RAJKOT METLAB SERVICES is one of the foremost independent Destructive and Non-Destructive Testing Laboratory having all the modern facilities with accredited by NABL [NATIONAL ACCREDITATION BOARD FOR TESTING & CALIBRATION LABORATORIES].

The main objective of this interaction is to being touch with material testing instrument and obtain the cognition of different material characterization.

Mr. Pramod Rathod Director of Rajkot Metlab Services. has communicated the emerging trend of material testing, development of advance image

analyses software and material testing instrument. Considerably

Interpretation of heat treated microstructure by the usage of metallurgical microscope and correlate those microstructure characterization with mechanical Properties.

- Prof. D M Patel



Interaction with Mr. Pramod Rathod on Material Testing.

# Skill Upliftment Through Training - 2016 Batch

The Prime Minister, **Shri Narendra Modi**, outlined his vision for "Skill India" as he launched the "National Skill Development Mission" in New Delhi that aims to train over 40 crore people in India in different skills by 2022.

Right now majority of the industry require "JOB READY" people but unfortunately, the limitations of the college environment & scarcity of the skilled candidate, students are not getting the real industry exposure to develop/check their technical skill.

To walk out to manage and lead in the dynamic industry environment and to make students familiar with the external world, EC Department has been continuously involved in upgrading the skill sets of students. Every year training is imoarted after identifying their interested domains like **Networking, Automation, Embedded Systems, Telecomm** etc. This year also our final semester students took Industry Training at various places. We have also evidenced the successful conversion ratio of student's training into their respective domain placement.

Nowadays there is also a need of **Interpersonal skill** like the importance of **Communication skill, Company etiquettes, Attitude, Teamwork** etc. Industry environment best suits for the overall grooming of the students. In the current curriculum of the GTU, There is an opportunity to carry out **Industry Defined Project** in the Final year of engineering. Taking the advantage of the same & to give the industry



exposure to carry out their Industry defined project, EC department has tried for an Industry Training to its students.

Department had initiated its efforts to make an industry interaction few years back & it has got a remarkable response from industry as well for the same.

CMS Info systems, Mumbai, Networkers Home, Bangalore, Softcon, Ahemadabad. Many students have also taken trainings in industries like Noble Automation, Rajkot, Zeal Automation, Ahemadabad, Vishvas Maritronics, Jamgar, Om Systems, Rajkot, Jyoti CNC, Rajkot, Netway Network, Rajkot, Geminy Infotech, Rajkot Total of 25 students have successfully finished their training & out of which majority of them have been placed in various industries.



## INDUSTRY TRAINING EC-2016

### CCNA & CCNP

**Networkers Home, Bangalore**

Malay Panchani

Dharmesh Vasoya

Pritesh Gohil

### INDUSTRIAL AUTOMATION

**Noble Automation, Rajkot**

Gaurav Patel

Fenil Adesara

**Softcon, Ahemadabad**

Ravi Bakraniya

Manoj Kanara

**Zeal Automation, Ahemadabad**

Jignesh Vavadiya

Divyesh Davda

### MARINE ELECTRONICS

**Vishvas Maritronics, Jamnagar**

Mohit Banugariya

### CCNA & MCSA

**CMS Infosystems, Mumbai**

Rushabh Mehta

Mansi Makhecha

Pratik Kansagra

Prashant Bhatti

Chirag Kalariya

Mitesh Sangani

Rushi Pandya

Ashish Faldu

### HARDWARE & NETWORKING

**Om Systems, Rajkot**

Vipul Solanki

### CNC PROGRAMMING

**Jyoti CNC, Rajkot**

Ankita Zankhaniya

Payal Parmar

### CCNA

**CCNA training at Pune**

Chetan Kharade

### NETWORKING

**Geminy Infotech, Rajkot**

Dhaval Vadodariya

**Netway Network, Rajkot**

Dhruv Fataniya

**CCNA Training, Rajkot**

Juber Makhakiya



# Essar Visit

*Whole world is a laboratory  
to the inquiring mind*

The journey towards learning began at 5:30 am on 8th of May 2015. 51 students of 4th semester, Electrical Engineering along with Prof. Chirag Pandya visited for one day at ESSAR POWER near Jamnagar. Students were served by a delicious breakfast as soon as they reached the plant. There are two units of 300MW capacity which makes the total capacity of unit up to 600MW.

**From the visit students were able to**

1. Complement their theoretical knowledge with practical exposure.
2. Understand importance of safety measures
3. Get an understanding of real working environment.

After the successful visit of ESSAR POWER they were very much amused by the eagerness towards learning of the students and hence they offered **ONE DAY TRAINING** to selected 15



students on 11th of May 2016.

1. Dhaval Hirani
2. Habil Chandiwala
3. Pradipsinh Vala
4. Harmit Savani
5. Niyati Vagadiya
6. Rajen Trivedi
7. Jaydeep Chandra
8. Akshay Rajyaguru
9. Mayursinh Rathod
10. Jaimin Lodhia



11. Kishan Beldiya
12. Kishan Panknania

During the training students were able to understand the whole simulation of the plant.

Students were briefly introduced to the latest automation technologies like SCADA and DCS.





# A Visit to Cosmos Developer

The visit was planned to trigger the student of 1st year, Civil Engineering towards the engineering concept. The visit to small construction site constructing building site for residential purpose located at NANA MAVA, Near Speed well Party Plot.

## AIM

- To stimulate the students with one of disciplines of civil Engineering
- To throw light on type of construction work



- To enlighten the students with the current trends in construction activity

The visit was headed over by Ms. Nidhi Chandarana & Ms. Natasha Sagar on 16/02/2016 with the help of site engineer Mr. Miraz who had explained students the various stages of construction.

The site was working at different stages the student will able to observe



at a time foundation work, Brickwork in walls, R.C.C. work in slabs & beams as well as "how to bend the bars for stirrups provision in Beam". The enthusiastic students started evaluating and working at small scale.

The student enjoyed the understanding the activities at site, develop idea of managerial qualities to complete construction work on time. They also understood crucial role played by site supervisor regarding

quality of material & quality of construction. These visit attached student to civil disciplines, help to engage them also motivating with the different subjects during their engineering arena.

## OUTCOME

- The student will be able to develop vision during when these topics will be taught in class.
- It will enhance their knowledge & help them to develop their perspective.
- The student enjoyed sites learning also are updated with modern techniques.
- They had been encouraged to have sound observation which will make learning easier & exciting.

# A Report on Contour Survey at MUNJKA village

## AIM

- The student will be able to judge actual survey practice.
- The student will be able to evaluate the method to be used for accurate data collection.
- They can cope up with the use of modern instrument which work on this principles.

The department of Civil Engineering



organized one day Contour Survey Project at MUNJKA village to commemorate the significance of



plotting contour maps in domain of Civil Engineering.

The project was planned by subject in-charge Ms. Natasha Sagar, headed along with Prof. Jay Kapadiya & Ms. Kajal Dhudhatara under the shadow of the HEAD OF DEPARTMENT





**PROF. VIMAL PATEL.**

The project was started at 9:30 AM dated on 23/04/2016 under supervision of the faculties & Head of the department. The project begins with the fixation of temporary bench marks & three stations were selected and at every station three readings were taken.

The visit was accomplished with full enjoyment & fun learning the student's understood the precision of surveyor during the surveying which is important for any purpose of construction. The surveying is the prime branch of civil engineering



without which no other activities can be worked out for any type of project.

The student's after completion of project plotted the sheets and able to compile the RL's of Depression & Hill. The project enhances the error solving ability among the students while taking readings & plotting the sheets.

#### **OUTCOME**

- The student's learned to prepare

the data collection method as per standard sheet followed by Survey department of India.

- The student's learned about the method of contour drawing & its use to decide requirement of cutting and filling at actual field.
- The student's learned to design the cutting and filling section of Roads, Railways, Tunnel, etc.

## A visit to Asia's Largest Pumping station - Dhanki

The visit was planned by Head of the Department Prof. Vimal Patel and coordinated by Prof. Krunali Savalia purposed to aware students with the water resources management:

#### **AIM**

- To cultivate the idea of water distribution & management
- To highlight amongst them the current working platform in water distribution & management.
- To be able to develop the innovative idea in solving water crisis.

The visit to Dhanki Pumping station was headed by Prof. Jay Kapadiya & Ms. Natasha Sagar on 04/04/2016. The visit was commenced by Mr. Aggarwal manager of GWIL (Gujarat Water Infrastructure Ltd.) managed in collaboration with SSNL (Sardar Sarovar Nigam Limited). The manager at the site first introduces the



concept of diverting the excess flood source of Narmada river water & its better applicability through constructing divergent structure.

The water from Dhanki which is lowest RL point is distributed to Kutch, Morbi, Rajkot & most other regions of Gujarat helps to meet with all residential, institutional, commercial, recreational as well as industrial demands of cities based on Population Projection. It also supplies water for irrigation purpose to farms for which metering to avoid water thefts from canal are installed at every 60km.



The entire station is divided in 3 zones NC-26, NC-32 & NC-30 of which NC-32 supplies water to Rajkot. The plant had capacity of pumping 545MLD water everyday & project cost is approx. 5 crore.

#### **OUTCOME**

- The student develops idea of divergence structure of canal.
- The student will be able to co-relate theory studied by them to implemented at an arena
- The student will be updated to their scope of working under such unit.
- The student will be able to develop expertise about various disciplines of hydraulic structure, water resources as well as sustainability of project.

## Computer Graphics workshop (implementation with C graphics)

Workshop has been conducted under CSI on 26th April 2016 and 30th April 2016 from 8:15 am to 4:40 pm for the first year students by Prof. Riddhi Pandya. It was a practical based session which focused on developing students skills in animation and graphics. They have got enough basic idea regarding animation and video making and image representations on the 2D screen with the help of pixel.

Main motto was to make them aware with the usefulness of the computer Graphics subject and powerful implementation of computer graphics with the C language.



Prof. Riddhi Pandya teaching animation spectrum to the enthusiasts.

Conti... from page 1 NSS Unit...

State of Government to the citizens, through NSS.

### INSPIRATION SPEECH

Some inspiring videos had been shown to the volunteers and reviews of the videos had been asked. The video conveyed the message that physical disability cannot become a barrier if one has willpower.

And then the volunteer prepared poster for activity planning. All the Department Heads including Executive Director visited auditorium to motivate the NSS team about the realistic problems which society is facing and how as an engineer we can solve it. They were glad to see that



most of the volunteers came out with unique ideas which they would implement in their social activities.

They were deeply impressed by the efforts given by the volunteers. Dr. S.B. JADEJA (Executive Director of B H G C E T ) encouraged the volunteers and shared few thoughts regarding NSS and motivated them for

continual participation in social activities.

### SHARING HAPPINESS

Student volunteers of NSS in BHGCET are actively taking part and heartily doing efforts in social work for the community and society. One of the volunteer VRUNDALI JADEJA celebrated her birthday with the children and the family who can hardly earn their daily meal. She got gratified doing this on her birthday. It was her first experience of celebrating her birthday in a different way under the influence given by NSS.





# Faculty - Student Achievement

6<sup>th</sup> semester Mechanical Department students Evoriya Mahesh & Gadhavi Kamlesh has published research paper under guidance of Prof. T A Bhatt Entitled, "Productivity improvement in bearing industry using DMAIC approach" in National Conference on Emerging Research Trends in engineering (NCERTE- 2016) organized by VGEC - Chandkheda, SPFU, CTE - Gujarat, IPR - Ahmedabad and TEQIP-II Institute of Gujarat from 4th to 6th April, 2016.

## ABOUT CONFERENCE

National Conference on Emerging Research Trends in Engineering will target innovative as well as emerging engineering trends pertaining to various engineering disciplines. The objective of NCERTE is to provide opportunities to the engineering students, academicians, researchers and industries to interact and



Prof. T A Bhatt with Evoriya Mahesh & Gadhavi Kamlesh students of 6th semester Mechanical Engineering

exchange novel ideas in various engineering domains. It will also provide common platform to learn

from each other's experience and knowledge.

- Prof. T A Bhatt

## Click Pick



BRIJESH NAROLA (4th civil)

Editor : Dr. Siddharth Jadeja  
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# Robocon 2016

CONTEST THEME **"Clean Energy Recharging the World"**

At present, we utilize energies for several purposes in daily lives. The sources of all energies are from nature. Human extract or synthesize these energies from nature. Among all the energies, fossil energy is among the cheapest and easily available. In the past, we misunderstood that fossil energy had unlimited amount and superfluously consumed them. Our energy-



consuming habit from the past has affected us a lot this day. The sources of fossil energy are harder to explore. The existing fossil energy will last not too long. In order to solve this problem, we have to efficiently utilize the existing energy and at the same time explore and utilize alternative sustainable energy which should be



clean and renewable in order to compensate the energy from fossil.

Based on the reasons above, the game of ABU Robocon 2016 is designed in order to create the awareness of efficient energy consumption and clean and renewable energy utilization. Each team has to build two

robots; Eco Robot and Hybrid Robot. Eco Robot doesn't have an actuator to drive. It receives the driving energy from Hybrid Robot. Eco Robot has to use only one steering actuator to control its direction, to track the path containing Slopes and Hills, River, and Down Hill. Besides providing driving energy to Eco Robot, Hybrid Robot has to take Wind Turbine Propeller from Eco Robot and climb up Wind Turbine Pole in order to assemble Wind Turbine.

It's a proud moment for to that since



last 5 years Students of Gardvidyapith Continuously participating in a national level robotics competition "ABU Robocon". This year, in 2016 we also had participated in the Robocon 2016 which is very fruitful for almost all engineering branches such as mechanical, electrical, electronics & comm., computer-IT and also



remaining others in practical sense as well as according to experience aspect.

As the field of automation or say robotics is a mixture of hard, technical



knowledge, team work and collaborative study as well as soft skills. the students of our college from different branch like mechanical, electrical, EC & computer worked together to crake the given challenge under the guidance of **Prof. Devendra Parmar**, Department of Mechanical Engineering.

## Team ROBOCON BHGCET 2016

Faculty Advisor : Prof Devendra Parmar

Team Leader : Maulik Posia

Team Members : Chirag Chauhan, Virat Patel, Vinal Dalsaniya, Raju Poshiya, Yagnesh Parjiya, Amit Patel, Nilesh Thummar, Gaurav Trada, Jeet Trivedi, Harsh Pandya, Pratik Vithlani, Nikhil Dholariya, Rushabh Doshi, Vishal Pansuriya, Khushbu Joshi, Kinjal Mehta, Nikita Tank, Vishali Goswami.

Executive director of our college **Dr. Siddharth Jadeja** was specially invited as a chief guest and appreciated with the moment on honor of continuously participation of Gardi vidyapith since 5 years in ABU Robocon.

- Maulik Posia (Team Leader, BHGCET ABU Robocon 2016 team)

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