



# THE Gardi TIMES

time to step ahead...

## CELEBRATIONS

## Patriotic Performances Relished with Life Long Learning Experiences !!!



Life-long learning was beautifully combined with patriotism while celebrating 26th January in the campus of B.H. Gardi college of Engineering and Technology in the company of the super kids of Genius and Ms. Bijal Harkhani, heading Genius Super Kids. After the flag hoisting ceremony, national anthem was sung by all in harmony. The colourful, enticing and moving performances of the gifted guardians added life to the celebration. All the performances, whether dance or songs or speeches reflected patriotic fervour to the fullest. The addition of the knowledge oriented quiz flavoured the celebration of this historic day with the spirit of competition amongst the three teams of teachers, girls and boys. The celebration was spiced up with the bubbly and spirited anchoring of Kinjal, Prachi, Jay and Aditya. Right from the beginning till the end, they certainly tried their best to engage the spectators. The lookers too

sparkled the festive ambience to the historic occasion by the applaud and chuckle.

As per the tradition of our country, on the Republic Day, the martyrs and heroes who showed courage and bravery for country's sake without bothering their own lives are remembered and conferred prestigious and significant awards, in the similar manner, rank scholarships are given away every year to the achievers of all the semesters.

The presence of the super kids in the T.V. Mehta Plaza to celebrate 26th January with the going -to-be- engineers made the occasion never forgettable along with inculcation of social values. It was one of the best examples of life-long learning, especially human values and ethics. The comparers Kushal and Bhavika were lively, enthusiastic and zealous who really added life to the execution of the activities. The parents accompanying their wards

reflected their happiness in their words. Some of the numerous activities, especially crafted for them and suggested by Ms. Bijal were musical chair, passing the parcel, identify the person game, fire on the mountain game, fast walking, added laughter and excitement. They enjoyed the DJ dance the most. More than 250 alluring gifts were distributed to them. It was really startling to know that these kids, though not normal, have more maturity and sense in some cases.

Sports Day Inauguration ceremony was also the highlight of the day. Mesmerizing formations by the students really left every one spell bound. The dawn of 26th January witnessed life-long learning experiences honed the life skills and enlivened many hearts and souls by the evening.

-Asst. Prof. Sujata Wadhwa  
Dept. of Humanities and Sciences

## CAMPUS BUZZ!

**A**SME (American Society of Mechanical Engineers) - a nonprofit organization which has 130000 members worldwide, organized a national level event named HPVC (Human Powered Vehicle Challenge) at Indian Institute of Technology -Delhi. We "The Gardians" enthusiastically participated in it with two teams namely "PINAK" and "HURRICANE".

Entering IIT-Delhi and that too for an event like HPVC was like a dream eventually coming true. Our staying arrangements were good and the atmosphere there was fascinating. On seeing the college campus as well as the students, it seemed as we were on the set of movie "THREE IDIOTS". It felt like only those students were pursuing "ENGINEERING" in true sense but we were pretty sure that we would go home with a bunch of



## Remarkable Achievement @IIT, Delhi ASME HPVC (Human Powered Vehicle Challenge)

precious moment from this event. On the day prior to event, we carried out probe of track, prepared the strategies, as well as visiting some places for shopping and refreshment. We knew that next day was about to be one of the most important day of our life.

And finally it was the day when our 1st event was "Design event" and the team worked with full enthusiasm. We explained our design as well as safety measures to judges and were pretty happy at the end of that day. It was followed by "Drag race" on the next day and was a spectacular moment for all as we made a record of speed and were on the top of table. We stayed on the top of the table till 5 rounds but unfortunately lost in the semis and our rider cried in pain and disappointment. That was a touchy moment for the entire team. But we were pretty happy that our "PINAK" team ended up with 3rd position in drag race and "HURRICANE" too was in top 10. That was a condolence for us as well as riders but on that last night, we stretched ourselves to the endurance limit for the third event.

On the final day, it felt like it was a "Day of Judgment" for our team. The alacrity of team members was palpable and the



fabulous efforts of rider's helped us to secure 2nd position in "Endurance Race". Singing, dancing, roaring and all kind of celebrations started for "PINAK". Roars of "Bharat Maataki Jay" and "Vande Mataram" could be heard all over the campus. That was the most beautiful moment of the entire trip for all of us.

It is truly said that "Leadership is the capacity to transform vision into reality" and this is the persistent trait of our team leader. Also our riders came up as the protagonists of the event. They used to practice till late nights and that was the only reason for achieving grand success. Finally we ended up with learning lot of things as well as with loads of enticing and mesmerizing memories in our hearts. It was a privilege to be a part of such a blissful team.

-Nawaz Ghodi  
6th Semester, Mechanical Engg.

## Innovative Saturday : Platform to Perform out of the Box Activity

**C**lass room lecture theory is important to acquire knowledge but learning by doing makes wonderful experience. We are celebrating Saturday as not simple one but innovative Saturday so that, students will acquire the live platform to exhibit their knowledge in the form of activities shared by Dr. Vishal Khasgiwala, Director, Kum. M.H. Gardi School of Management, Rajkot on the occasion of inauguration of Management club on 18th Jan. 2014.



On this occasion students inaugurated the different clubs and also launched the logo of their clubs.

The purpose of forming these clubs is to initiate students to go deep in their respective fields by doing different club activities. These clubs are purely democratic in nature. All the clubs will be run by the students, and for the students.

In the beginning of innovative Saturday, students organized the activity under the

name ROZGAR in which they organized the interview of HR, Finance and marketing. They have executed in the form of role play. It's a simulation of real interview. This activity helps them to understand how to face the interview in various disciplines. Students of MBA-IV sem. Mr. Rashiv Chhaya and Miss. Dhara Suvagiya played the role of recruiters. The club members played the role of aspiring candidates.

The club members will focus on learning those aspects of management that are usually not included in their classroom studies but can be learned only by doing it. Mr. Prashant Mehta, CEO of Gardi Vidyapith appreciated the idea of club formation. He further added that such activities will result into developing a better place for real learning.

### Quote of the Month

Happiness is not something you postpone for the future; it is something you design for the present.

-Jim Rohn

## CAMPUS BUZZ!

On 18th January, 2014 Entrepreneurship CELL (e-CELL) of B. H. Gardi College of Engineering & Technology had organized a head start event: eChai Demo Day (Rajkot Edition) in association with point10 venture. Mr. Jatin Chaudhary, Co-Founder of Point10 Venture and Mr. Jatin Kataria, Founder and Managing Director of WE- The Alternate Society, identified the Young Entrepreneurs from the Rajkot Zone and invited to showcase their Business Model to the students and professionals of the region. The Demo day involved more than 25 entrepreneurs from the Saurashtra region.

The Business model demonstration was given by 10 teams of entrepreneurs and 2 teams from e-CELL in front of more than 250 students and professional at Convention Centre. Following are the glimpse of budding entrepreneurs:

- Brain Veda by Mr. Rajendrasingh Zala, has an amazing concept of analyzing human nature by finger print.
- Shrandhanjali.com by Mr. Vivek Vyas. Mr. Vivek demonstrated his unique social condolence website which is never seen before.
- Mr. Vivek Sanchati, the owner of eYuva.com presented his new website owner's tool for detailed analysis at one page.
- A school pass-out student, Mr. Nirman Dave presented his revolutionary project of Ant- A multi touch table which is touch sensing table for normal computers.
- Mr. Amit Panchal, the founder of allevents.in presented the working idea of all event networks and updates.
- Team Drashti, a group of students & faculty working for social cause, demonstrated a fascinating device to help

## eChai Demo Day @ e-CELL, Gardi Vidyapith

deaf peoples in society.

- Mr. Bhargav Joshi, developer of Redditpoll.com explained the scope of improving famous websites by showing his own work.
- Mr. Ronak Bhagdev presented a new kind of business which helps in the updating the price of mobile phones from the offline store.
- Printjoy, a company of group of engineering students also participated. They supply candid photographs and stickers from the Instagram network.
- AllInRajkot.com is a unique ground breaking business promotion network which provides smart shopping card to give away amazing offers and discounts.
- Mr. Kaushal Rajput, an e-CELL member from EC department, presented his optimistic project of Noiseless Horn for Vehicles.
- Lastly, Green Humans Team of Mr. Kinarkumar R. Patel and Mr. Ankit D. Ramoliya from e-CELL had presented their Evacuated Tube Solar Cooker and its future scope.



The participants were mesmerized by the experiential session and they came to the conclusion that human brain is an enormous store house of ideas. They witnessed how a small spark is converted into a nontraditional business and



business. Many entrepreneurs had emphasized that to start a business one does not need of a bulk of money. This gave a ray of hope to many students with the mantra "just think, plan, apply and earn". Some of entrepreneurs presented some of really diversified sources of income that can be practiced at the stage of Graduate trainee engineers.

During the tea break students got a chance to interact with entrepreneurs and they didn't waste a single minute of it. They were rubbing shoulders with successful entrepreneurs and participant students had mused a high torque on thinking level and "if he can do, then I also can do" feeling was inculcated amongst the participants.

The event was proved to be an instantaneous success. This success wouldn't have been possible without the remarkable efforts of all e-CELL members, Prof. Kapil Skula of MCA Department and support from management.

e-CELL Members of B. H. Gardi College of Engineering & Technology have got a hefty bout of inspiration by this event and have decided to give a complete guidance to the students who would be interested in entrepreneurship right from idea generation to the stages of implementation and arrange and attend these types of event in future as well.

## Workshop On ENERGY ANALYSIS

Department of Mechanical Engineering had organised an in house workshop on ENERGY ANALYSIS for 4th Semester students from 20th January to 25th January 2014. The workshop was conducted by Prof. Mehul Pujara. The workshop was of 2 hours per

day with 12 students actively participating in it. The objective behind the workshop was to introduce the concept of energy and its various forms, implication of energy conversion on environment. The workshop was continued with discussion on Energy analysis of class room. The

energy utilized by fan, motor, tube light; air conditioning system and many more components were discussed with example. The students also came to know that how to select no. of air-conditioning systems required by using heating load.

**CAMPUS BUZZ!**

**Kite Flying Festival @ MBA Department**

**K**ite Festival (Uttarayan) is regarded as one of the biggest festivals celebrated in Gujarat. The festival of Uttarayan marks the day when winter begins to turn into summer, according to the Hindu calendar. It is the sign for farmers that the sun is back and that harvest season is approaching which is called Makar Sankranti.

On this occasion, Dr. Vishal Khasgiwala, Director, Kum. M.H. Gardi School of Management, Rajkot had presented the view that, Business and management lessons from kite flying are a perfect guide to carry out business. From each stage of kite flying a business/management aspect is to be evolved, from deciding which business to carry out till the end of the business each stage of kite symbolizes stage of business.

The event was celebrated on 11th Jan. 2014. MBA department was decorated with innovative kites prepared by the students of MBA and faculty members of whole Gardi Vidyapith.

The innovative kite making competition was organized. The students unleashed their creativity in making different kites. The major attraction was the message that was being delivered through this occasion. Some students urged the society to save the girl child; some included management thoughts in their



kites, on the other hand, one of the trustees of Gardi Vidyapith Mr. Kamlesh Mehta gave the tribute to Late Shri Deepchandbhai Gardi by decorating a kite with the collage of Shri Deepchandbhai's life story.

In the competition, 1st prize was awarded to Priyanka Donga (MBA 4th Sem). Second prize went to Harsha Shingala (MBA 4th sem). Consolation prize was awarded to Prashant Pandya (MBA 2nd Sem). Ms. Sujata Wadhwa and Mr. Hardik Doshi were the judges of the competition.

Hon. D. V. Mehta, Mr. Prashant Mehta,

Prof. S. B. Jadeja and all the HODs of engineering fraternity visited the exhibition and appreciated the keen enthusiasm shown by the students and faculty members.

After the innovative kite exhibition, it was time for some real fun. The terrace of MBA dept. came to life with loud music, sweetness of chikki, and loud cheers of happiness all around. Some students of BHGCET also joined the celebration. The events was coordinated by Prof. Khusbu Doshi & Prof. Nilesh from MBA Department.

**International Kite Festival in Rajkot**

**T**his time Rajkot hosted the international kite festival. It was organized by the district collector office on 9th January at Ishwariya Park.

The onlookers from various schools and colleges enjoyed flying kites & watching different types of kites flying over the horizon. More than 100 kite flyers from across the country took part in this festival. The festival was also enlivened with the presence of more than 50 foreigners who equally exhibited their enthusiasm in flying kites of varied shapes and sizes. The colourful sky attracted everybody. The atmosphere was perfect for flying kites.

The Collector of Rajkot city Dr. Rajender

Kumar, Yuvraj Mandhatasingh Jadeja, Rajesh Radadiya, Director of NRI Gujarat and Jayeshbhai from Bolbala Charitable Trust and other dignitaries visited this lively & colourful celebration.

Kite festival featured kites of different shapes like that of Octopus, Butterfly, Cartoons, Teddy bear, Parachute, Snake, Fog, Eagle, Delta and Sparrow. There was also a car kite that attracted people very much.

The snapshots were taken by the people to make the moments memorable. The school girl had performed classical



dance on the stage. The people of Rajkot showed their keen interest and desire to organize international kite festival every year.

Student Reporter: Jay Bhatt  
Institute of Journalism & Mass Communication

## CAMPUS BUZZ!

Industrial Design and Manufacturing play a vital role in enhancing the productivity of an industry. As a result, every entrepreneur in an industry has to take into account the latest advances in design and manufacturing. The Two Days Workshop on: Basic Engineering Practices in Design and Manufacturing therefore organised by the Mechanical Engineering Department. The workshop aimed to enable practicing engineers working in the industries and academics in the area of Design, manufacturing and quality control to closely interact with expert possessing a wide experience in this field. It offered participants the opportunity to have a bird eye view of what are the basic skills required for the design, manufacturing and quality control for the product.

The workshop was divided into various



## Two Days Workshop On: "Basic Engineering Practices in Design and Manufacturing"

technical sessions covering various topics related to engineering practices in design and manufacturing. An assessment of all the participants was also conducted at the end of the training sessions.

### Prominent Speaker:

1) Prof S B Soni:

He is the retired professor from L. D. Engineering College, Ahmedabad. He possesses a wide experience in the subject of "machine design". He has guided many PG students in the field of design and manufacturing. Presently he is acting as a visiting faculty at Nirma University. He has handled many industrial consultancies and has solved many industrial problems with his vast experience and knowledge. He is the chairman and a member of many government organizations.

This workshop was the outcome of Prof. Soni's untiring efforts. He has always been ready to share his knowledge and experience among young engineers from industries and academia. The purpose of this workshop is to train and to provide proper directions to young engineers which will make them efficient and



effective in their profession.

2) Mr. Ravi Nirmal

Mr. Ravi Nirmal is a Product Development Incharge, Prashant Gamte Pvt. Ltd., Ahmedabad. He has more than 5 years of experience in product development and CAD/CAM/CAE and also assisting various industries.

### Topics Covered:

Basic drawing Practices -Geometric Dimensioning and Tolerances, Limit Fits and Tolerances - Hole basis and Shaft basis System-applications of Limit Fit and Tolerances-types of Fits Basic design procedure. Design considerations - safe life and fail safe design, Ethics in Engineering design, Creep criteria, Design based on Fatigue.

## Guidance Leading to Retrospection : TPC

BH Gardi College of Engineering & Technology had organized a program on self evaluation test on 1st January for the Training & Placement for the students of final year Mechanical Department. This program was first initiated with a wonderful knowledgeable speech of Prof. S. B. Jadeja sir with Head of Mechanical Engineering Department Prof. V. H. Oza, Prof. Amit Sata, Prof. D. D. Shukla and supported by Mechanical department's placement coordinator Prof. Mehul Pujara.

The main motto of this event was to guide the students as per their field of interest. The field of Mechanical engineering was divided into 3 parts: 1) Thermal engineering 2) Design & 3) Manufacturing. In the end the interview of students were conducted by Prof. V. H. Oza and Asst. Prof. M. K. Pujara.

The Training and Placement Cell of BH Gardi College of Engineering & Technology plays a key role in counseling, guiding and training the students of the college for their successful career. The objective of the cell is to create a pool of competent techno-managerial personnel for India's various industrial sectors like manufacturing, automobiles etc. It bridges the gap between the acclaimed academicians and the Global scenario of the MNCs.

The placement cell is being lead by a senior professor and supported by a dedicated placement coordinator. The office is assisted with a team of efficient faculties and student representatives from Mechanical Engineering Department. The placement office caters to the needs of the H. R. team from various organizations.



Industrial training is provided by leading organizations and manufacturing majors such as ICEBURG TECHNOCAST PVT LTD, IMPEL CAST PVT LTD, PRECISE TECHNOCAST, DELTA TECHNOCAST, HI-CON TECHNOCAST and more. We can be proud of the fact that most of our students from final year are getting Industrial training in the Top Manufacturing companies with a handsome stipend per annum.

**TECHIE SERIES**

**The Big Moment is Here!**

An interaction session was organized by ASME students of the Department of Mechanical Engineering on "How to be a successful design engineer using basic fundamental and advance tool ?" for 6th and 4th semester students. Mr. Apurva Kapadia (M.S. Mechanical, OHIO University, USA), Technical Director, Prashant Group of Company, Ahmedabad was a key speaker for this session. Since last 12 years, he has associated with Prashant Group of company as a Technical Director and looking after Design and Development, Machinery Manufacturing, Market Development. He has also been having

13 Years Experience in Automobile Industry - USA as a Lead Engineer-Daimler/Chrysler Corporation and worked in the following area.

- Computer aided design - using FEA tools.
- Crash Worthiness
- NVH
- Durability

He had provided excellent guidance about the design, application of design, how to develop new product, how CAD tools and FEA will become helpful in the industry, etc. He had also pointed out that there are not as many researches done



from India in comparison to USA. He suggested to give more emphasize on research base new product development in industry. And he suggested the students to choose career in their area of interest. Prof S.B. Soni witnessed the entire activity and motivated students.

**CCNA@ CSE/IT DEPARTMENT**

**CISCO SYSTEMS**



With the sincere efforts of Mr. Prashant Mehta, CEO - GardiVidyapith, Prof. S. B. Jadeja, Executive Director and Prof. Y. V. Shukla, HOD, of CSE-IT a Cisco Certified Networking Academy - CCNA was launched in February 2013. Due to the growing trends of IT the demand of CCNA & CCNP experts is booming in the networking based companies. LAB1 in the Building 'A' of Gardi Vidyapith has been allocated as a CISCO Lab. CCNA curriculum has a combination of practical & theoretical approaches in the field of networking. Using simulators & hands on sessions on routers & switches, students can get the knowledge of the large networking era.

There are hardly 7 institutes in Gujarat having authorized CCNA centre in their campuses, and B. H. Gardi College of Engineering & Technology is one of them. The management of Gardi Vidyapith is going to offer CCNA R&S (Cisco Certified Network Associate Routing & Switching) courses at a very nominal fee for the students of entire Gardi Vidyapith. The aim of the academy is not to make monitory profit but to patronize the



students in their career advancement.

Following are the 4 modules of CCNA R&S:

1. Introduction to Networks
2. Routing & Switching Essentials
3. Scaling Networks
4. Connecting Networks

Prof. Bhavin Gurjar & Prof. Pravesh Goel, of CSE/IT Department, are managing the Cisco Networking Academy in Gardi Vidyapith campus and are Cisco Certified Instructors. Both of them have accomplished CCNA R&S Modules: 1 & 2 prior to the launching of CCNA at Gardi Vidyapith. CSE/IT department feels proud to announce that Prof. Bhavin Gurjar has completed the training of CCNA R&S Modules 3 & 4 from CRISP, Bhopal. These modules include configuring and troubleshooting routers & switches and resolving some common issues with RIPv1, RIPv2, Single-area and Multi-area OSPF, Virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. It also covers topics such as solving issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks.

Students who have already completed the CCNA modules 1 & 2 will now also be able to register for later modules. Studying these course modules will develop the networking related knowledge and skills of students so that they can implement DHCP and DNS operations in a network. They will also be able to implement IPsec and virtual private network (VPN) operations in a complex network.

**Conti... from page 3 Energy Analysis...**



The exercise was given to the students in group to do energy analysis of workshop, hostel block A, hostel block B and department of mechanical engineering. The reports prepared by the student reflected promising value of energy usages. At the end students came to know about the sources of energy, its conversion in useful form and the area where they can focus for energy savings.

**-Prof. Mehul Pujara**  
Asst. Prof. Mechanical Engg. Dept.

## TECHIE SERIES

### TECHNOLOGY & CREATIVITY AT ITS BEST!!

As BHGCET believes in comprehensive development of the students, to encourage the students to think out of the box, CSE-IT Department had recently organized a technical symposium called "SMASHTECH-13" on 24 & 25 January 2014. BHGCET Management believes that students should not just live their lives in between the four walls of the classroom and neither should they become the bookworms just to score more in the examinations.

Gardians believe, when the knowledge is shared, it gets integrated. It had given the students a chance to have some fun and frolic by participating in various events. By and large, the students had found three things by this event, which were: Education, Entertainment and Exposure.

Inauguration ceremony made divine beginning of the symposium with Holy versus of Shree Bhagwad Gita sung by the students in the presence of dignitaries, Prof. Y. V. Shukla HOD-CSE/IT, Prof. V. A. Gandhi, Prof. A. D. Ved, Prof. D. D. Shukla and Prof. Sujata Wadhwa.

Prof. P. K. Goel showered his words on pros and cons for a student being a part of this event. He exposed the students to the resources available at the department for the different events.

Prof. S. B. Jadeja, Executive Director, Gardi Vidyapith, stressed on the importance of attending and organizing such events and shared his thoughts on giving opportunities to the students to present their ideas and guided the students to give their team efforts to implement those ideas. Various events of Smashtech were introduced to one and all present in the Auditorium by an excellent 3D video covering the introduction to all the events. The students of 6th sem CSE Department namely Smit Satodia & Viraj Padaliya created this mesmerizing video to fire a spark of enthusiasm among the students before the beginning of actual competitions. The event continued for 2 days and more than 400 enthusiastic students actively participated in the events and explored various levels of competencies in the world of computing.

## SMASH TECH'13 @ CSE-IT Department



Smashtech encompassed following 7 events: Paper Fetzen (Paper Presentation), Code Fusion, QBlas, Web Designing, Computer Networking, Debugging in C/C++ and Idea Presentation.

### The various events were

- **Paper Fetzen Contest (Paper presentation)**

Participants were challenged on their abilities to write a technical paper in standard format and explore the technical knowledge in the areas of their interest.

- **Code Fusion (12 hours coding)**

The participants were able to show their coding skills and most important their thinking approach with solution capabilities on various technical platforms within 12 hours.

- **QBlas (Technical quiz)**

This MCQ based Quiz provided students with an opportunity for testing their technical aptitude skills in various core subject of IT field like C, C++, Object oriented programming (OOPs), Java programming, DFS, DBMS, SQL, etc.

- **Web Designing**

It provided an opportunity for participants to showcase their creativity in designing a website using various web development tools.

- **Plexus (Networking)**

In this event participants were tested on

their ability to design complex networks and also send all the packets successfully across the network overcoming the various barriers in communication.

- **Cikitsaka C/C++ (Debugging)**

The participants had to compete to find out the number of bugs and reduce those bugs from a given program. This event also gave an opportunity to explore their logical skills in C/C++ domain that could help them at the time of working on live projects in industries.

- **Idea Presentation**

This event was organized only for 1st year students. In this event students superbly presented their innovative creations and the main objective of this event was to encourage the young minds to think differently.

The event was concluded among the presence of Shri D. V. Mehta, Chairman of Gardi Vidyapith, and other dignitaries. Shri D. V. Mehta delivered an inspiring speech which was followed by the declaration of the winners of each event. A beautiful showcase of the interviews of all the faculties of CSE-IT department and the glimpses of the entire Smashtech'13 in form of a splendid video were displayed. The event concluded on a great note and with a firm resolution to make the Smashtech'14 a bigger event.

Ms. Ruju Gandhi & Ms. Bhavini Joshi  
(CSE4thSem;CSE)

**CAMPUS BUZZ!**

**Industrial Visit @ Indian Naval Ship, Valsura**

**O**n Saturday, 18th January 2014 students of 4th and 6th semesters along with two faculty coordinators of Gardi Vidyapith E.C. department visited the most legendary Indian Navy Service at Valsura, commissioned in 1942 as the Torpedo Training School of The Royal Indian Navy. The objective of the visit was to comprehend the practical applications and functional activities of our technical theory education. At the commencement of visit all the visitors were hailed by their Guide Niraj Kumar (Instructor at Valsura) at "Ujval Auditorium" to watch an inspirational movie based on The Indian Navy Service directed by Narendra Joshi. The movie articulated some important and historical moments of Indian Navy.

The four groups of the students visited The Advanced Communication Lab where the Instructor E. T. Varghese explained the students the nature of wave response and operation of communication trainer kit practically and through software. The next was Antenna and EMI/EMC Lab demonstrated by Instructor Harshharan Singh where the students were made aware of different types of antenna, functionality and concepts of antenna, Spark and Marx



generator, TEM cell etc. In the mean time at the first floor students observed the microwave components gallery where the students found many new arrivals and technical upgradation in microwave components. The further was Sonar Lab demonstrated by Instructor Rakesh Kumar explicated the Sonar Trainer Kit of worth rupees 95 lacs where students understood the functioning of SONAR and how to track any object under sea through Sonar. The last lab visited was ECTS where the Instructor Subodh Kumar demonstrated a practical radar model and the students learned how to track the plane or any flying object by using radar. Finally, the students were led towards

(ETS) Centre of Electrical Technology where the functionality, working and concepts of ship generator i.e. ship's switch board section, its breaker section, cooking machine with oven, mechanism of central air conditioner in ship, rotor, motor etc. were rationalized by Instructor Kapil Salariya to all the visitors present there.

The visit was indeed an inspirational and motivational one for all the students and faculty members. Organization & whole arrangements of the visit was the joint venture of faculty members of Electronics & Comm. dept., Prof. S. B. Bhatt, Prof. G. R. Joshi and Mr. S. M. Zala

**Spreading the fragrance of philanthropy with pleasure...**

**M**r. Binoy Gardi, the grandson of Deepchandbhai Gardi visited the campus on and motivated the students with his scintillating words spotlighting the vitality of **life-long learning**. He opined, "The presentation skills must be ameliorated by constant practice." He was pleased with the insights of varied activities on the campus aiming at the **harmonious development** of the pupils.

Asst. Prof. Sujata Wadhwa  
Department Of Sciences  
and Humaniites





**CAMPUS BUZZ!**

**Industrial Tour  
@ Bisag Gandhinagar & Bsnl, Ahmedabad**

To stimulate the students for industrial orientation and its importance the CSE/IT department recently conducted an Industrial tour on 10th January 2014. After a strenuous period of examinations and a petite break, 52 students of 4th Semester CSE/IT along with Prof. Nikul Virpariya & Prof. Rekha Teraiya triggered the enthusiasm for others by visiting two distinguished organizations namely, BISAG, Gandhinagar and BSNL, Ahmedabad.

BISAG viz. Bhaskaracharya Institute of Space Applications, Gandhinagar is formally known as Remote Sensing and Communication Center (RESECO). It has been named after the great mathematician of 12th century "Bhaskaracharya".

The engineer in charge of industrial visits at BISAG guided all the people towards the Academy of Geo-Informatics for Sustainable Development & gave a brief description about the entire arena and its various departments. The overall premises were divided into four divisions/departments.

**1. GIS division:** It conceptualizes, creates and organizes the multipurpose common digital databases for various sectors and thematic applications for user systems.

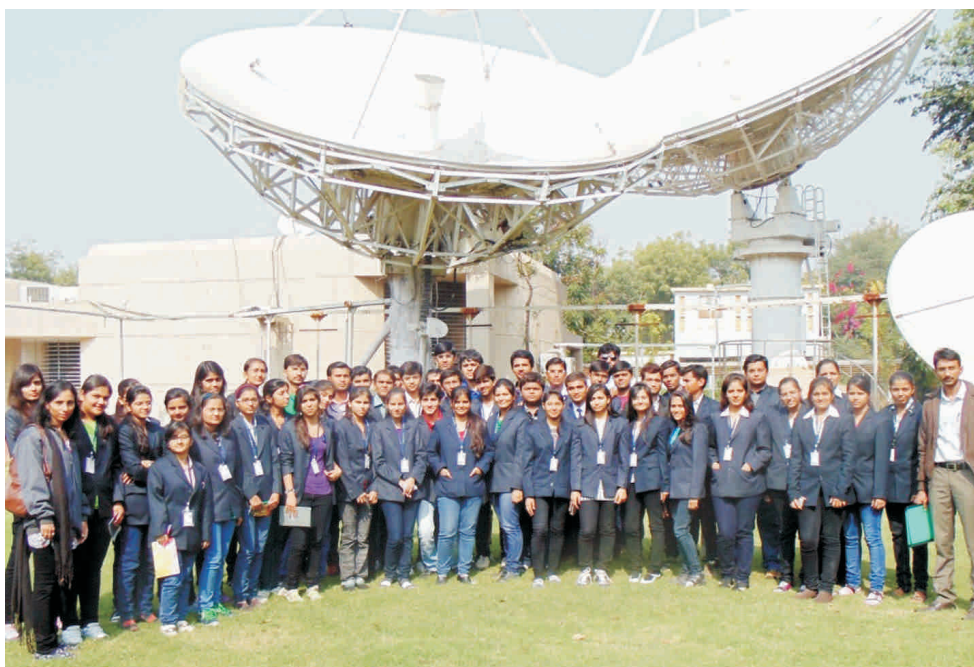
**2. GUJSAT studio:** It provides education to thousands of children in rural areas. It sends TV signals and gives live lectures to the children living in rural and remote areas. This technology has been extended up to more than 20,000 villages of India.

**3. Software training region:** It provides GIS training and projects to various engineering students of Gujarat.

**4. School of Sustainable Development:** Its purpose is the creation of elevation model, terrain characteristics, maps and resource planning.

The BISAG visit ended up with a twenty minutes of interactive session on doubt solving with the in-charge engineer.

The second campus visited during afternoon was **BSNL RTTC Viz. BHARAT SANCHAR NIGAM Ltd., Regional Telecom Training Center.** It provides



comprehensive Telecom Services, as well as training needs to internal and external customers. Following labs were visited at BSNL:

**1. OFC Lab (Optical Fiber cable Lab):** BSNL Engineer explained all about the concepts of PCM which is a digital signal. This lab is used to connect different systems. A working model of PCM was shown.

**2. DATA Lab:** Data lab was all about routers servers and internet connectivity. BSNL Engineers explained the working of routers & its compositions, Servers, LAN connections and wireless LANs i.e. Wi-fi, etc. They also explained the practical use of IPv6, which will very soon be launched in the market of India and they also informed students about the research related to IPv6 field.

**3. BROADBAND Lab:** BSNL Engineers also explained how a broadband connection, along with internet facilities, works. They explained the cycle of its working which included PC, Modem, Splitter, DSLAN (for multiplexing, demultiplexing and splitting), OCLAN, BNG (Broadband Network Gateway, which manages Global IP) and NIB (National Internet Backbone).

**4. FTTH Lab (Fiber-To-The-Home):** The purpose of this lab is to solve the major drawback of distance. With distance connectivity vanishes, so this problem is overcome by FTTH. Students also

sawIPTV (Internet Protocol Television) in this lab. It works on global IP, has distinct library, can view any shows or channels according to the viewer's need.

**5. GSM Lab:** This lab is used for GSM mobile communication understanding.

**6. Museum:** It had all sorts of earlier used telephones starting from data communication Morse key to PLAN 103 main HMT. It was all about the history of telecommunication.

**Activities done as a pre-requisite of this tour:**

- Prof. S. B. Jadeja gave valuable guidance to all the students regarding the approach to be taken while visiting any industry. He also emphasized on maintaining discipline and etiquettes.
- Prof. Nikul Virpariya had well in advance explained about all different departments of BISAG and BSNL. He had also encouraged students to inquire about final year training and project work at BISAG and BSNL.
- Prof. Jatin Ambasana had informed the students about GIS and also gave an e-book to them for understanding GIS related technologies. He insisted that before visiting BISAG students read the book and perform some practical from it, so that they could ask productive and quality questions to the instructors of BISAG and thus have a better and deeper understanding of GIS.

## CAMPUS BUZZ!

### Expert Talk on Fundamentals of Matrix Theory and Vector Analysis

**M**athematics is an integral part of the study of engineering. Keeping the same objective in the mind, an Expert Talk on Fundamentals of Matrix Theory and Vector Analysis was conducted for the 6th Mechanical Engineering students on 11th January, 2014. The session was delivered by

Assistant Professor Alpesh T. Dhokai, a faculty of Mathematics in the DHS. The fundamental of matrix theory is basically used in subject CAD-CAM offered by GTU to 6th Mechanical students which would be very much useful to the students for understanding theory and its application. The topics covered during the session

were: Introduction to Matrices, Row Echelon form of a Matrix, Inverse of a Matrix and Properties, Determinant and Properties, Cross Product & Dot Product of Vectors along others. At the end of the session students keenly participated in the question-answer session.

### Expert Talk on Linear Algebra

**R**ecently, Expert Talk on Basics of Linear Algebra was successfully organized for 6th semester Mechanical Engineering Student by the Department of Humanities and Sciences. The session was conducted by Assistant Prof. Hiren Bhatt. Keeping the need of the

students in mind, the topics were covered during the session such as: Introduction to Vectors, Various Operations on Vectors, Introduction to Matrix and Types, Rank of Matrix, Minors, Cofactors and Adjoint, Inverse of Matrix and its Applications and so on.

These fundamental concepts play significant role to implement Mathematics in real life problems. All the students actively participated in the session and they also solved concept related problems during the session.

### Expert Talk on Basics Concepts of Matrices

**T**he students of 6th semester Mechanical Engineering have merrily attended the Expert Talk on Basics Concepts of Matrices which was conducted by Assistant Professor Asmabanu H. Rajavada of DHS. The topics covered during the session

were: Basic Operations on Matrices, Different Types of Matrices, Row Echelon form of a Matrix, Inverse of a Matrix, Determinant, In  $R_n$ , norm, distance, inner(dot) product, cross product, angle etc.

It is necessary to comprehend the fundamentals of Matrices and Vector Analysis to understand "Finite Element Method". Finally, students also enthusiastically took part in the interaction and doubt solving session.

### Expert Talk on "Expectations of Industry"

**A**n expert talk was recently organized by the Department of Mechanical Engineering on "Expectations of Industry" for 8th and 6th semester students. Total 68 students participated in this session. Dr. G. D. Acharya, Principal, AITS, Rajkot was a key speaker for this session. He is having more than 30 years of experience in the teaching field and is also well-informed on many industries and their requirements.

He explained about the requirements of

industry after the completion of engineering. He also disclosed the mantra of success, i.e. to never compromise in quality. He then focused on the scope of advance welding techniques in the industry. He also provided guidance on personality development and communication skills as per the industrial requirements and also insisted the students to do the practice for the same. His talk created visualization in the eyes of students about



a real picture of industry correlated with the mechanical engineering.

### Scattering the Rays of Happiness in the Hostel

**I**t gives happiness to share that a memorable and wonderful party for the Hostel Girls Students had been organized on 1st January, 2014 by the warden Mrs. Pragna Mehta. To celebrate and Welcome New Year, we had a special guest with us Mrs. Neena who came from London. She shared her beautiful experiences with us and encouraged to welcome this New Year with great zeal, enthusiasm and joy.

Friends were the prime focus of the party and it was the time when the past, the

present and the future merged beautifully into one another. The party was celebrated in the hostel garden which decorated with ribbons and lights by the volunteers. Moreover, music, dance followed by a taste cake and delicious dinner made this party amazing for all of us. The party added memorable experience in the life of hostel students.

The party was a grand success as it was celebrated without any disturbance and chaos. Finally, all students thanked to the guest Mrs. Neena who spent her valuable



time with us and made this party wonderful by her presence.

-Jill Pathak (2nd CSE)

**UNVEILING THE TALENT**

**A Tribe Of "KUTCH"**

"A happiness", "a pleasure of heart", "a smile on face", "satisfaction" are so simple and sweet quotes. However, we urban people are bereft of and far away from these facts.

I found all these quotes personified in the rural lives of the people Banni: a tribe residing in the deep desert and grasslands of Kutch. It is amazing to see their culture and way of living. They are illiterate but clever, not professionals but disciplined, not so wealthy but contributors to the human values.

The Bannis are mainly a cattle breeding nomadic Muslim of Jat Community. They love to live with freedom. Recently, the Government of India has declared Banni area as the Reserved Forest. The wildlife of this area has a variety of flora and fauna and many wonderful sights.

It's an unearthly feeling to see a novel



community and a different way of living a life. They have no worry and no concern about what's happening all around the

world because they have their own small world within Banni.

-Hitarth

**Living & Breathing Words: A Workshop On Report Writing**

**BRILLIANT BEGINNING:** Reports are often the most common tangible output of the work we do. So to bring revolutionary changes for report writing in **BHGCET**, a fabulous workshop was conducted on **23rd January, 2014** by the foresighted faculties of ENJOY LEARNING ENGLISH Department to guide the students on how to write or publish a report, about some event or routine activities taking place in their campus for honing their skills and providing them technical exposure.

**GIGANTIC GOAL:** Basically, the workshop was for all the departments and almost 250 students were registered. The workshop threw lights on the essence of parameters such as, WORD ARTS, CHARACTERISTICS OF A GOOD REPORT, GROUP DISCUSSIONS, PRACTISE REPORT SESSION, WORD QUIZ, EYE-CATCHY WORDS, and lots more.

**EDUTAINMENT:** This wakeful workshop gave students education with entertainment and was full of enthusiasm and creativity. The workshop was

proceeded by a motivational articulation of Prof. S. B. Jadeja, Executive Director of GARDI VIDYAPITH; he showered his words on the importance of professionalism in writing. Further he continued with providing a platform for skilled and creative students by influencing students to be active in the editorial section of "**GARDI TIMES**".

In the end of workshop, the students were given 2 minutes to discuss about the workshop and faculties asked every student to present their views, which was recorded, for the fair selection of editorial board of the students.

**FANATICAL FEEDBACK:** Flourishing feedbacks were given by the students after the workshop. One of them concluded as "It wasn't just a workshop,



but actually the climbing steps towards the world of factual communications and technical writing skills."

As of course all students were not be selected, but their presence provided them a very perspective vision, ideas and experience to learn something innovative, which could benefit them in their technical skills and future conferencing **IDEAS**.

-Neel Sangani, Ruju Gandhi & Bhavini Joshi (4th CSE Students)

## ARTOGRAPHY



**Be With Us  
Yet to come in  
February Issues...**

- **Immaculate - 2014** : A Mega National Level Technical Symposium
- **Astro-Youth Fiesta 2014**
- **Group Discussion Grand Finale**
- Series of **Report Writing Workshops**
- Celebration of **Sports Fiesta**
- Series of **Activities at Boys Hostel**
- **Movie Club** - Being Active Again
- Sparkling **Women's Day Celebration**



Happy Reading...

## STUDENTS' ACHIEVEMENT

### GATE 2015 Preparations @ CSE/IT Department

The Graduate Aptitude Test in Engineering (GATE) is an all-India examination that primarily tests the comprehensive understanding of various undergraduate subjects in engineering and science. The GATE Score of a candidate reflects the relative performance level of a candidate. The score is used for admissions to various

Post-graduate courses (e.g. M.E., M.Tech, Direct Ph.D.) in Indian higher education institutes with financial assistance provided by MHRD and other Government agencies.

The CSE/IT department, under the coordination of **Prof. Nikunj Domadiya**, has started a Lecture Series for GATE -

2015 preparing the keen students. All core subjects will be covered by staff members based on their subject expertise. It will increase the students' fundamental knowledge of core subjects which will eventually help them for appearing in the written tests as well as for the interviews during the camps recruitment procedures.

## FACULTY ACHIEVEMENT

### Participation of CSE/IT Faculty in a Conference @ IIT Bombay

**P**rof. Prashant Maheta of CSE/IT Department has attended SCIPY INDIA 2013, 5th Annual & International Conference on Python for Education & Scientific Computing, organized by IIT Bombay. SCIPY India is a conference on the Python



programming language in the Scientific Computing community in India. It provides a unique opportunity to interact with the "Who's who" of the Python for Scientific Computing fraternity and learn, understand, participate, and contribute to Scientific Computing using Python. Attendees of the conference and participants were able to learn domain-

specific applications and how the tools could be applied to a plethora of application problems. One of the goals of the conference was to combine education, engineering, and science with computing through the medium of Python. It also aimed to spread the use of Python for Scientific Computing in various fields and among different communities.