THE Gardi TIMES

time to step ahead...

Rising Luminaries of BHGCET @ GTU TECHFEST 2016

"Success don't lie in Results but in Efforts;
Being the best is not so important, Doing the best is all that matters"

The GTU-Techfest 2016 was all about harnessing the resources and hidden talents of students concentrating it at one place and at one time in form of a Technical Festival

GARDIANS never back off when it comes to brawl. In a battle of brains among 5000+ students from GTU affiliated degree and diploma colleges, the students of BHGCET corroborated the conviction of their institute. It was an **era of achievements** during **GTU TechFest 2016** hosted by MEFGI, Rajkot wherein numerous proud moments added to the interminable glory of Gardividyapith.

Rank 1 Harsh Sheth mentored by Prof. Riddhi Pandya and Prof. Trishla Shah

HEMANSHI_KAJAL_GTU Techfest-2016 1st Rank Circuitrix 4th EC

Sudhir, priyal, meghana 6th EC GTU Tech Fest Arduino 1st Rank In Arduino Hack N Make

3rd Rank achieved by Damini Hajare and Isha Seta mentored by Prof. Chirag Bhalodia and Kunjal Garala

Rank 3 : Minaz Metar, Janvi Ramani (2nd Semester)

Kaushal Udani from 4th EC won 3rd Price in Edition Exhibition

"THE WHOLESOLE BATTALIONS OF THE EVENTS ARE HEARTLY CONGRATULATED FOR THEIR MARVELOUS PERFORMANCES!!!!!!..."

EXEMPLARY INITIATIVE

Students Organize Activity ~ Learning By Doing

6th Semester Students, **Donika Mungra** and **Kinjal Koradia**, organized **Learning By Doing** Activity under **SOA (Students Organize Activity)** under the guidance of **Prof. Gaurav R Joshi**, on 13th Feb, 2016 Saturday, in which 4th and 6th EC Students participated.. For this activity, they chose over a wide range of topics and presented in different ways like presentation, drama, chart, model, canvas etc. **Prof. Manish Patel, Prof. Sunil Bhatt** and **Prof. Urvi Mehta** judged the event.

Solving Query about Topic

Groups Searching and Preparing Contents

Demonstration on Traffic Awareness Theme

Mobile Application Related EC

Winner : Joisher Miloni Rajeshbhai, Rupapara Sudhir Jasmatbhai, Makwana Sanket, Bhalodiya Henal Jagdishbhai, Bhaya Habib Noormahammed, Maulik Maheshbhai Sanchela

Traffic System of India

Runner up : Suchak Dollyben Anilkumar, Pandya Jaydeep Vipulbhai, Thanki Meghaben Harishbhai, Vivek Jagdishbhai Limbani, Dharmeshkumar Bharatbhai Parmar, Pritikumari Dhanajaybhai Singh, Deepkumar Jitendrabhai Kalariya

Computer Shortcut Key

2nd Runner up : Ravi Unagar, Sanghani Sachin, Jadeja Hetalba Bharatsinh, Shah Unnati Mayurkumar, Rathod Dharmishtha Mangalsinh, Vansjaliya Pragnesh Rajeshbhai, Gaurav Kalubhai Chauhan

Hazards Through Wireless Technology

2nd Runner up : Megha Kamleshbhai Gohel, Poojarani Shivom Thakur, Satodiya Hiteksha Gopalbhai, Patel Anandkumar Ramanikbhai, Vispara Shreyank, Shingala Mohit Nareshbhai, Jaimin Arvindbhai Dholariya

Feedback:

Thakur Poojarani (4th EC): From this event, we learnt time management means within short time how we can complete our task.

Joisar Miloni (6th EC): Learnt maximum utilization of limited resources and give out best to our Topic Presentation.

Kaushal Udani (4th EC): We learnt from this activity, how to resolve data loss type of Problems within short time.

Exploring Rubric of Judgement

Interaction with Audience

Presenting Biography of Legends

Delighted Coordinators

Out Come:

1. Learn Time Management
2. Improve Presentation Skill
3. Improve Leader Skill
4. Work in a Group

Involve to Prepare Poster

CONTRIBUTING GROWTH
Knowledge Sharing Centre (KSC)

Gardi Vidyapith, a prominent institute of Saurashtra region has a tradition to impart the knowledge and leverage the carrier of aspirant students of the society. Keeping this in mind and as a valued added service to the community, Kum. M. H. Gardi School of Management organized a knowledge sharing session to the students of M. J. Kundaliya College on 13/02/16.

The first session had been taken by Dr. Vishal Khasgiwala on the theme'Shape Your Destiny'. It is categorized into 3 segments discovering your gift, developing a Winning mind and identifying your level of personality. The seminar covered extensive research on nurturing ones passion and applying a winning mind towards building a long term results with tools and strategies.

He also shared some important aspects of exam preparation, Carrier planning and faith on hard work. He guided students how to deal with preparation towards the achievement of excellence.

The whole session was very informative, interactive and students really joyed the session

The second session was executed by Asst. Prof. Nilesh Ankleshvariya on Brand Quiz. Brand quiz contains Identification of brand logo, Identification of corporate mascots, product personality, advertisement, popular jingles, punch lines

and effectiveness of mass communication. Here, he glimpses the various Indian brands its past and present marketing strategies and during the session he reveals the core of marketing.

More than350 students and 4 faculty members of M. J. Kundaliya collage attended the seminar. It was very interactive; students were very attentive and asked questions and clarified the doubts. All the 'KSC- Management' team members coordinated the event successfully. The entire gathering ended with the campus visit.

FACULTY ACHIEVEMENT

Dr. Vishal Khasgiwala, Professor & Director of Kum. M.H. Gardi School of Management Co-authored & published paper on **"The Exploratory Behavior of youth in central India: Impact of Impulsive Buying & Self concept"**, in Pratibimba-The Journal of IMIS ISSN 2348-0653, E-ISSN-0972-5466, Vol. 16, issue-1, pp 39-48, Jan.-June 2016 index in ProQuest.

ECSTATIC STAGING

Paper Presentation at Indian Foundry Congress 2016, Coimbatore

Dr. Amit Sata - Head of Mechanical Engineering Department, B.H. Gardi College of Engineering & Technology, enriched his array of knowledge by presenting a research paper at **Indian Foundry Congress 2016**.

Indian Foundry Congress (IFC) is one of the utmost esteemed events organized by **Indian Institute of Foundrymen (IIF)**. It is habitually organized annually in various zones of every year. For the existing year, it has been organized on **29th - 31st January, 2016 at Coimbatore**. It is a worthy plinth for demonstration of new-fangled inventions and forthcoming technologies advantageous to industries and researchers. With over **7000 visitors** and **1500 delegates** joining the event, around **300 industries** grabbed this opportunity of exhibiting their best modernizations and technologies.

Dr. Amit Sata shared his research paper entitled **"Foundry Data Analytics for Prevention of Defects in Investment Casting"** which principally focuses on application of data analytics in the field of manufacturing and particularly investment casting.

SVUM-2016 International Trade Show, Rajkot

Saurashtra Vepar Udyog Mahamandal (SVUM) organized SVUM - 2016 international trade show from 11th to 15th February, 2016 which served as the biggest initiative in Saurashtra-Kutch where all stakeholders came under one roof to explore business opportunities which includes government, industry, financial institutes, consumer and academia with aim to establish Saurashtra-Kutch as hub for MSMEs in Global Map and provide a platform to work for social economic development of Saurashtra-Kutch. **Prof. Priyank**

Ready to explore & interact with industrialist

Feedback from Faculties:

Prof. P D Zaveri : We got great platform for discussion with different industrialist and came to know about some innovative technology.

Prof. A B Vachhani : We have interacted with many industrial delegates from different sectors. It will help us to improve the knowledge of students and bring a positive change in our thinking and practical approach while imparting education.

Prof. A J Kavar : It was very informative and interactive session with industrial delegates.

Zaveri, **Prof. Ashish Kavar**, **Prof. Ankur Vachani** and **Prof. Alzuber Saiyad** explored SUVM-2016.

Objective of this visit was attained and global discussion on the challenges linked to innovative technology of various sectors which included all types of manufacturing industry, agriculture industry, textiles industry, renewable energy industry, etc.

- Prof. Priyank Zaveri

AUGMENTING INFORMATION
Know Your Industry Through Alumni

EC Department has started series of Expert Talks named **"Know Your Industry Through Alumni"** - an initiative to explore industry through the eyes of Alumni. First interaction was by **Mr. Mihir Thakkar** on **23rd Feb 2016**.

Learning Objective:

- Motivate students for their better future.
- Establish & provide healthy interactions with Alumni
- Create awareness among students for Various Field of Electronics & Communication Engineering.
- Learn about work ethics.

Alumina Detail:

Mr. Mihir Thakkar

Network Engineer, L2 Position in NOC

Ishan Infotech Pvt. Ltd., Rajkot.
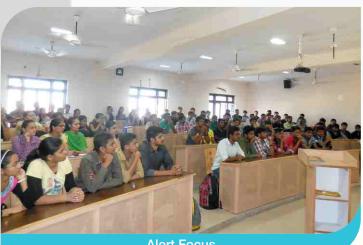
Suggested Skill and Certification by Alumnus:

Suggested Skill

- Time Management
- Email Etiquettes
- Communication Skill
- Work in Team

Vote of Thanks By Prof. C.D. Parmar

Mr. Mihir with Bloach of Gardi Vidyapith

Demonstration of Tracert Command

Engrossed Audience

Alert Focus

Suggested Certification

- CCNA in Routing and Switching.
- CCNP and CCIE in Routing and Switching.

Experience Sharing:

Mr. Mihir shared his experience of Bangalore where he has completed his CCNA and also Training Time Period in CMS at Mumbai. He gave insight for Networking through IOT (Internet Of Things), Trace route, Work of ISP etc...

Logo Designing

Logo Design Competition was aimed at extracting & testing the Logo designing skills and also to bring out the creativity of the participants. It was continued in two phases so that students can project their ideas and imagination in the most ingenious way possible by creating a unique & innovative Logo Designs.

Quick Page

Quick Page allows you to exhibit your ideas and creativity. The competition was divided into two phases. First round was the preliminary round and Second round was the finale.

1st Rank was achieved by **Ruchi Bhut** and **Hiral Mavani**

2nd Rank was achieved by **Trusha Radadiya, Nidhi Gol**

3rd Rank was achieved by **Radhika Vora, Jalpa Sanchaniya, Bansi Vekariya**

Crack

This event mainly focused on testing the observation skills, awareness and IQ of the students. There were three rounds in the event. After dissipating every round participants will be furthered to the next level. Three rounds comprise of penetration and transcription of the given hints and clues. Our students cracked all three round and were ranked 3rd.

Enviro-Genius

This competition was aimed at bringing out ideas that could help for the betterment of the society. Our students were **ranked 3rd** in poster presentation the topic being **"Population as a pollution"**.

Think and Design

This event focused on searching the inside talent of engineers for creating and developing innovative design for burning problems of society. Participants were made to explore their cognitive skills for problems to reach to the solution.

Civil Conquerors

SR NO	NAME OF EVENT	TECHNICAL/NON-TECHNICAL	PARTICIPANTS	ACHIEVEMENTS
1.	EARTHQUAKE RESISTANT BUILDING	TECHNICAL	1. CHHANIYARA YASH 2. RAMANI DIVYESH 3. VAYA KISHAN 4. GOJIYA PARESH	1st RANK
2.	Disaster Mitigation	TECHNICAL	1. KUMARI POOJA 2. BHATT MITESH	1ST RUNNER UP
3.	SKILLED HUNTER	NON-TECHNICAL	1. DEVANI NIKITA	1ST RANK

Robo Maze

In this event the team of contestants were made to design and build an autonomous robotic "Micromouse" that navigates through a maze of given dimensions from a starting line to finish line in shortest time. **3rd Rank** achieved in Robo Maze.

Edison's Exhibition

When we are together we are better than brothers.. A joint venture of ELECTRICAL & EC were able to show the glimpse of what they are learning in college. **Rajdip Butani, Ankita Trivedi & Ankita Thanki** from 4th ELECTRICAL along with **Kushal Udani** from 4th EC are **2nd RUNNERS UP** in a competition named

Rank 1 Hiral Mavani and Ruchi Bhut mentored by Prof. Jatin Ambasna, Prof. krunal Malani and Prof. Vaseem Ghada

Rank 3 Nikhil Surani, Parth Mangi, Raj Hirani mentored by Prof. Dharmesh Bhalodia, Prof. Jay Gandhi, Prof. Hardi Sanghavi, Prof. Nikita Dudherejia and Prof. Priyanka Raval

EC/Electricals Rockers

Abhisha, Hetal, Nirupa 6 EC Gtu Tech Fest Arduino 3rd Rank In Arduino Hack N Make

Robo Chanmp

EC/Electricals Rockers

EDISON'S EXHIBITION in which there were 28 groups

Kirchoff's Confusion

In a battle of brains among 110 groups in 5 different rounds in a competition named KIRCHOFF'S CONFUSION there was a spark from 6th ELECTRICAL-**Priyank Sureja, Swarup Jakhaniya, Ravi Vora** who immerged victorious and won the **GOLD MEDAL** to make the Department proud with their feet.

Model Rocketry

In Model Rocketry participants had to prepare model rocket using water as its reaction mass. The pressure vessel - the engine of the rocket - is usually a used plastic (soft drink) bottle. The water is forced out by a pressurized gas, typically compressed air. **Divyesh Faldu, Hardik Charadva, Prayag Babariya** and **Divyesh Shingala**, students of Mechanical Engineering, secured **1st position** and **Gadhavi Dixit** and **Fulbariya Girindra** secured **2nd position**.

Rank 3rd Khusboo Thumar, Ishita Rathod, Jakir Shah, Ami Samani ,Happy Savaliya, mentored by Prof. Dharmesh Bhalodia

Rank 1 Sejal Trivedi, Karan Parmar, Ami Sanchaniya, Chandrika Majethiya

Rank 2 Trusha Radadiya, Nidhi Gol mentored by Prof. Jatin Ambasna, Prof. Krunal Malani and Prof. Vaseem Ghada

Bansi Vekariya, Radika Vora, Jalpa Sanchaniya mentored by Prof. Jatin Ambasna, Prof. Vaseem Ghada and Prof. Krunal Malani

Rocket is ready to fly

Rank 3rd Kinjal Virani, Tanvi Dave, Kashyap Shivani (2nd Semester)

Car crafter team

Robo war ranker

Students with their canvas

Civil Conquerors

Car Crafter

In this event participant had to make balloon operated car out of the given material like thermo Cole sheet, drawing sheets, bottle with cap etc. and winner will be selected on the basis of the maximum travel of the car within given boundary of the path. **Nakum Vikram, Jadeja Rushirajsinh** and **Pokiya Pankaj** secured **1st rank**.

Robo War

The challenge is to create a robot whose sole purpose is to push, throw, flip, drag or otherwise move your opponent out of the War field within a stipulated time. This event aims to test one robot against another in a field of combat where brute strength and cat-like reflexes hold the key to success. **Bhatt Zankhana** and **Kalal Sahil** secured **2nd rank**.
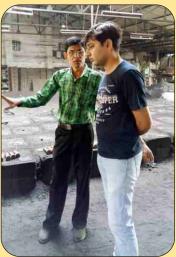
ENLIGHTENING EXPERIENCE
Industry Interaction

Technology is changing and enhancing day by day. Department of Mechanical Engineering of B H Gardi College of Engineering & Technology has always been aggressive towards practical exposure to embrace changes. So to popup with the latest technology and to fulfill the current need of industry and empower the students, an initiative was taken wherein, the faculty members visited various industries to augment their knowledge of different software, manufacturing methods, design, etc. This reverted as multi-directional awareness & grooming of students.

Prof. A B Vachhani and Prof. A A Saiyed visited **Bhuvneshwari Foundry**, established in the year 1964 by Shri Parsotambhai G. Talaviya with a vision to fulfill the need for casting products, by the industries in the Gujarat region.

Mr. Anilbhai interacted and provided all over information about the manufacturing of centrifugal pump, how to measure the performance of centrifugal pump and assembly of diesel engine. It was really knowledge sharing and interesting interaction where faculties got practical knowledge about casting process of centrifugal pump and assembly of diesel engine which will help us to guide the students.

Interaction with Mr. Anilbhai,
Manager of Bhuvneshwari foundry

The Faculties, **Prof. K H Jadeja, Prof. M H Patel** and **Prof. V S Koradiya** of Department of Mechanical Engineering have visited **JYOTI CNC AUTOMATION LTD, Rajkot** and had interaction with **Mr. Yogirajsinh Jadeja** on 14th Feb. 2016. This Industry is manufacturing CNC, VMC, Special Purpose Machines and also produces various products like turbine blades, defense machineries etc. This industry possesses measuring and calibration instruments like CMM, RH measurement, Automatic marking machine. This interaction help to Upgrade the practical knowledge with technical depth and identify which key skill require in industry.

Prof. A B Vachhani, Prof. A J Kavar and **Prof. V S Koradiya** have visited **Nikoo Precision Cast PVT Ltd, Rajkot**

Mr. Ajay Nakrani (Q.A.Manager) and **Mr. Prashant Hingrajiya** (Head, Melting Dept.) of Nikoo Precision Cast PVT. LTD. shared all over information about investment Casting. It was really knowledge sharing and interesting interaction. The faculties got practical knowledge about investment casting process which will help to guide the students in field of manufacturing.

Interaction with Mr. Prashant Hingrajiya on melting of material using induction furnace

6th semester students along with **Prof. Mehul Pujara** and **Prof. Jignesh Lakhani** visited **Himalaya Refrigeration, Rajkot. Mr. Bhavesh Dodiya** (Managing Director) guided the students about products, fabrication and testing of Heat Exchanger. The interaction was helpful to realize about importance of standard reference book. Students understood the inter-relation of Thermodynamics, Heat Transfer and Refrigeration & Air Conditioning subjects. The interaction was helpful to understand the future demand and need of Refrigeration & Air Conditioning.

Glimpse:

Industrial Interaction Memories with Mr. Bhavesh Dodiya (Second from Left)

Prof. D M Patel visited **RAJKOT METLAB SERVICES**, one of the foremost independent Destructive and Non - Destructive Testing Laboratory having all the modern facilities with **accredited by NABL**

Mr. Pramod Rathod, Director of Rajkot Metlab Services, communicated about 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.

Interaction with Mr. Pramod Rathod on Material Testing

For the awareness of the Design and Manufacturing of Submersible pump, **Prof. Jignesh D. Lakhani** and **Prof. Anand R. Joshi** visited **Siddhi Engineers (Sterling Pump)** and Interacted with the industrial personnel.

Mr. Parth Khachar, R & D Manager, Employee of Siddhi Engineers shared the details about Assembly line and Production line of submersible pumps. It was truly learning sharing and intriguing Interaction where both faculties got useful information about various types of Submersible pumps, Testing and Inspection of Submersible pumps and Balancing of pumps, which will help us to guide students in field of Design & Manufacturing of pump and quality control.

The faculties, **Prof. A B Vachhani** and **Prof. A J Kavar** visited **Nerolex Pipes PVT. LTD., Rajkot**

Mr. Ravi Dadhania, Managing Director of Nerolex Pipes PVT. LTD. notified about manufacturing of different types of pipes using Extrusion Process. It was really knowledge sharing and interesting interaction. Both the faculties got practical knowledge about extrusion process which will help them to guide the students in field of manufacturing.

Interaction with Mr. Ravi Dadhania on Extrusion Process

Sports Fiesta at Ga

G ardi Vidyapith organized 4 days annual Sports Fiesta for its students of Engineering, MCA and MBA Education on 25-28th of February 2016. The whole event was effectively organized and successfully executed by the students. Its objective was to develop in the students a sporting spirit, a venue to display their physical prowess and hands on experience of organizing events. Sports like Cricket, Football, Volleyball, Badminton, Table Tennis, Kabaddi, Kho Kho, Chess, Carrom, Tug of War were played and also Athletics which included 100m, 200m, 400m and 400m relay races.

During these four days the entire campus echoed with passion and boundless enthusiasm for sports in the students. Online individual/team registration for particular games started before a week. The most awaited and exciting Cricket league matches for Sports Fiesta had also started five days before. The first day of Sport Fiesta '16 inaugurated with the preliminary rounds for indoor games like Badminton, Table Tennis, Carrom and Chess. On the second day i.e. 26th January, along with Sports Fiesta 2016 Gardi Vidyapith celebrated 67th Republic Day of our nation with zeal and patriotism.

As usual Gardi Vidyapith is known for doing something "Hatke" always, so this time Sports Fiesta was spiced with the "Tadka" of non-technical gaming activities like Minute To Win It, Game of H2O, Treasure-Hunt and many more fascinating and thrilling games. All the students cum athletes were excited for all 4 days of Sports Fiesta. Apart from students, **Mr. Ghashyam Nayak** and **Mr. Tanmay**

Vekaria who are familiar to public as **"Nattukaka"** and **"Bhaga"** from the famous TV serial **"Tarak Mehta Ka Oolta Chashma"** were the guests of Gardi Vidyapith on Republic Day, and couldn't resist themselves from being a part of this aspiring sports carnival and had a hand on experience on Table Tennis, Badminton etc. Also the faculties of the Gardi Vidyapith couldn't hold them back from participating in the Sports Fiesta. They also showed their hidden sporting spirit.

Gardi Vidyapith didn't left a bit in celebrating our nation's 67th Republic Day as the **LIVE-telecast of T20** Cricket match played between India and Australia was also arranged in the Convection Centre. The third day of Sports Fiesta started with team games like Football and Volleyball simultaneously quarter and semifinal matches of cricket tournament had also begun. The last day of Sports Fiesta 2016 was filled with more curiosity and eagerness as the final clashes of all the games were played on this day. Along with celebration and enjoyment Gardi Vidyapith never fails to be the reason of any noble cause for our nation as it is our duty and responsibility towards our society. All the registration amount collected from each game was donated to **"Sainik Welfare Fund"**. The closing ceremony of Sports Fiesta 2016 was in Gujarati style and being in "Rangilu Rajkot" students of Gardi Vidyapith couldn't keep them from playing "Garba" which brought the Sports Fiesta to an energetic end.

- Vishak Veliyath & Mansi Dave (6th-Mechanical & 4th-CSE)

STRENGTHENING FOUNDATION

Basics of Computer

2 days workshop on "Basics of Computer" was conducted under **CSI** by **Prof. Kunjal Garala, Prof. Chirag Bhalodiya** and **Prof. H. S. Sanghavi** for the students of 2nd semester CSE-IT branch where the computer's internal structure remained the cornerstone of the workshop.

Facets of online purchasing and social media were also delivered in the workshop which was appreciated by the bunch of exuberant young students.

Keen intellects solving post session quiz

Less ME and More WE to achieve target

Prof. Kunjal Garala monitoring the efforts of the students

Two sessions - **Poster Presentation** and **Quiz Competition**; were arranged to monitor and judge the students' creativity and understanding developed from the previous sessions.

POSTER PRESENTATION WINNERS

Group 1 : Priya Pandey, Rekha Bandhiya, Paneri Devangi, Paneri Krishna, Alam Minaz Fatma

Group 2 : Priyanka, Twinkle, Krupali, Kajal

Group 3 : Tanna Ekta, Bhuptani Meghna, Dhamecha Nirali, Faldu Mehula, Khandhediya Hemali

WINNERS OF QUIZ

| 1st Rank: Sanchaniya Shubham | 2nd Rank: Happy Bhuva | 3rd Rank: Rahul Parmar |

EXPLORING DESIGNING
HTML5, CSS3, JavaScript

A 4 days workshop on **HTML5, CSS3 and JavaScript** was conducted by **Prof. Jay Gandhi** and **Prof. Monika Shah** to quench the thirst of students to learn the aspects of designing domain. At the end of the workshop a competition was held for the students, which was a blend of all the skills delivered in the previous sessions. Students who exhibited extraordinary performance are:

Prof. Jay Gandhi unraveling the aspects of designing spectrum

Rank 1:
Kalariya Ronak Rakeshbhai,
Ardeshna Nency Rajnikantbhai

Rank 2:
Katariya Sarika Kanjibhai

Photoshop and Coral Draw

A seminar was organized by **Prof. Riddhi Pandya** for the students interested in the designing domain . Seminar was conducted by the designing experts, **Mr. Yagnesh Dave**, **Mr. Dhaval Tank**, **Mr. Milan Intaliya** and **Mr. Heerpara** **Mitsun** who shared their wide spectrum of skills and knowledge regarding logo designing using Photoshop cs6 and Corel draw 4.0.1 with the students.

Students spanning the designing field and absorbing the contents delivered by the industrial expert

EXTENDING EFFORTS
Project Exhibition

"It is always a blessing to learn the wisdom from the elders". Project exhibition was held by CSE/IT department to showcase the hard work and creativity of the 3rd year students to their juniors. Students presented their miraculous works in the exhibition. List of groups with meticulous engineering works were:

VANET (KPIT Sparkle 2016)
Essence: Technology that uses moving cars as nodes in a network to create mobile network.

Sagar Bhagdev, Bhagyashree Parmar, Prachi Desai

Automated I-Detector
Essence: Uses face recognition and counter to detect crowd and automatically switch off the light when no one is in the room

Kinjal Bhagdev, Radhika Kalavadiya

The trip - Paddle to the jungle (Virtual cycle game)
Essence:Maps the speed to the virtual gaming experience ,use of Phython language and arduino

Members Group 3: Isha Seta, Damini Hajare, Tank Divyesha, Dharodiya Shital, Rinkal Gohel, Ravina Gojariya

City Box (Game developed using Programming C)
Essence: Game developed in C without the use of graphics in which bricks fall down and develop a building when fall on stage.

Members Group 4 : Damini Hajare, Isha Seta

Rainy Stego (Developed using Programming C)
Essence: Typing Game built using C to implement encryption of message.

Members Group 5: Damini Hajare, Rinkal Gohel, Dhara Bhoraniya

Mysterious Sudoku (Developed using Programming C)
Essence: Sudoku developed in mysterious ways to encrypt a message which can be decrypted only by solving it in specific way.

Members Group 6: Isha Seta, Shital Dharodiya, Divyesha Tank

ArishthaPath
Essence: Messaging system for accidental emergencies using arduino,GSM+GPS .

Members Group 7: Hitarth Chaudhary, Hitesh Salavi

Aash-rojgar
Essence: Platform to bridge the gap between under-privileged and the employers.

Members Group 8: Jill Pathak, Nikhil Surani

LIVE LEARNING

Workshop on Learning Solar Photovoltaics with an Application to Charge Mobile Battery

A workshop was conducted on learning solar photovoltaics with an application to charge mobile phone battery. The workshop was held for 4 days **(4th, 5th, 8th and 11th February, 2016)** as students were divided in four batches. Each batch accommodated on an average 30 students.

Following were the learning outcome of the workshop which included 3 tasks.

Task 1: Understanding working specifications of mobile phone batteries

Usually a learner/student thinks that to charge a mobile phone battery, it requires to apply specified voltage only. However, analysis of various batteries suggests that the current is also an important parameter. The current at which batteries are charged is normally different for different batteries' capacity. Similarly regarding battery discharge current also requires proper understanding.

Majority of the mobiles have Li-ion type batteries. These batteries have rated voltage of 3.7 V and Maximum charging voltage is 4.2 V. This is taken care of by internal voltage regulator circuit of a mobile phone.

Task 2: Selection of appropriate size of solar panel

Solar panel specifications include mainly open circuit voltage, load current, voltage on load, short circuit current and wattage capacity. Standard solar panels come with necessary testing reports also. Some non standard solar panels especially for smaller size are also available in market. It is found that such non standard panels take more current than specified one. For example, if we know the mobile battery capacity, we can select appropriate solar panel for it.

Students learnt observing solar panel specifications, Performance analysis of solar panel for rated current and voltage and Series and parallel connections of solar panel to achieve required voltage and current.

Task 3: Implementation of solar charge control for mobile phone batteries

In previous tasks, solar panel specifications were learnt. With such basic information it was verified with mobile phone. Observing and monitoring charging current with different mobile phone batteries will make correct understanding in choosing appropriate solar panel. If necessary solar panel is not available we can make parallel connection of two solar panels and achieve necessary charging current. It will be understood that certain mobile phones requires more regulated voltage and current to initiate charging.

Students were able to charge the mobile phone and performing experiment with a buzzer when mobile phone battery gets charged.

Concluding Remarks

The whole workshop was conducted with the help of student coordinators from different branches.

Student coordinators contributed their level best. Following students were the coordinators.

- Virendra Dhakhada(8th Mechanical)
- Urvish Solanki (6th Mechanical)
- Akshay Rajyaguru (4th Electrical)
- Jaydeep Chandra (4th Electrical)
- Rajan Trivedi (4th Electrical)
- Dhaval Hirani (4th Electrical)
- Habil Chandiwal (4th Electrical)
- Parth Sheth (4th Electrical)
- Dharmesh Parmar (4th EC)
- Shehzad Gadhiya (4th EC)

Prof. Rakesh Oza from EC Department conducted the workshop with the help of above student coordinators.

Future Scope of Learning

A group of students will explore more on above concepts and develop solar based mobile charger with more protection circuits. They will verify various circuits.

POOL OF KNOWLEDGE

Advance Java (Servlet) Workshop

On 18th - 19th January 2016, an **Advance Java (Servlet) Workshop** was organized by the **Department of MCA** under **CSI** chapter of BHGCET for MCA 4th semester students. The workshop was conducted by **Prof. Homera Durani**.

The workshop was aimed to help the students to acquire knowledge and

Concepts covered during Workshop:
- OOPs Concepts
- Java Concepts
- Database connectivity with Insert, Update & Delete operations
- Framework (Wordpress)
- Knowledge about different browsers
- Eclipse (helios)- IDE
- Different jar files
- Tomcat 7Servers

working on the Java Web Development as per the industry standards. In support to the high scope of Web development in the future, more importantly the workshop provided the opportunity for hands on experience to assure, attendees get the practical knowledge about **Java Web Development**.

- Avani Patel (4th MCA, BHGCET)

Exploring for Expertise

Performing task

Group of Advanced Java Workshop

PHP Workshop

PHP Workshop

On 19th - 20th January 2016, **PHP Workshop** was designed and arranged by the department of MCA under CSI chapter BHGCET for the students. This Workshop was taken by **Prof. Kapil Shukla** and **Ms. Daxa Kundariya**.

The objective of the workshop was to introduce website development using PHP

Ms. Daxa Kundariya share their knowledge with students

along with hands on experience of hosting a website. Added to this **industry oriented guidance and practice** was provided.

As the conclusion of workshop, attendees developed a Live website which justified the understanding of concepts and success of workshop.

- Avani Patel (4th MCA BHGCET)

Students learnt following concepts during workshop:
- CSS & HTML
- Basic of PHP
- Database connectivity with Insert, Update & Delete operations
- Framework (Wordpress)
- Installation to understanding of Framework
- Wordpress plug-ins
- How to purchase Domain name and web hosting?
- How to host and upload Website?

Enthusiastic Learners

Group of PHP workshop

POOL OF KNOWLEDGE

Android Workshop

2 days workshop on **"Android Application Development"** was organized by **Department of MCA** conducted by **Ms. Mitra Ashara** on 19th, 20th January, 2016 in association with **CSI chapter of BHGCET.**

Main aim of the workshop was to provide an opportunity to participants to get a firsthand knowledge of technology perspectives in the emerging areas of mobile application development with hands on sessions.

Day-1 Essence

- Introduction to Android
- Application structure
- UI Designing detail
- Intent Detail
- Practical session

Workshop Highlights

- Provided practical exposure for android app

Day-2 Essence

- Introduction to SQLite Database
- Insert, update, delete data into database
- Select data from database and display data to user
- Practical and practice session

development in Eclipse IDE.

- Attendees developed small application of **"Student Registration"**.
- Participants built proficiency to develop a mini app in android as like Registration and Login form.

- Priyal Shah (MCA Sem-4,B)

Learning by coding

Live coding of Android Application by Ms. Mitra Ashara

The Android Group

.NET Technology Workshop

2 days workshop on **".NET Technology"** was organized by **Department of MCA** conducted by **Asst. Prof. Ajay A. Ardeshana** on 19th, 20th January, 2016 under **CSI Chapter of BHGCET**

Objective:

- To understand the concept of Web Technology.
- Study Fundamentals of Web Site development.
- Learn Input level validations in Web Pages.
- Create & access database from database server

Topics covered during .Net Technology

- Introduction of .Net Framework and Web Technology & Web services
- Use of HTML & CSS to design web page.
- Concept of Theme to create different

Skins of Page Layout, Properties & Methods of frequently used Controls to design web page.

- Input validations using Validation Controls as well as JavaScript.
- Database Designing in Ms. SQL, Database Connectivity with Ms. SQL and Ms. Excel.
- Explanation of SQL Injection & its solution.
- State Management using Session & Cookies and Master Page Concept.

Post workshop, attendees were accomplished to develop a small web site in .net as like, Registration and Login form with output / input validation and Insert, Update, Delete using **GridView** functionality.

- Shah Priyal (4th MCA BHGCET)

Discussion with students related to errors

Prof. Ajay Ardeshana delivering his pieces of knowledge regarding ".Net"

Group of .net Technology

PROACTIVE LEARNING

Long Hour Coding Session on 8085 Microprocessor

Microprocessor plays a significant role in the everyday functioning of industrialized societies. It is a Programmable Logic Device that can be used to control processes, turn on-off devices, to perform computational & data processing tasks etc.

For an EC Engineer it is very important to understand the functioning of the Microprocessor & do the programming based on the given tasks, as they have to understand the problem, analyze the problem, apply the logic & finally they need to implement the functionality in the form of Instructions. Moreover in an industry environment, they need to work for long hours.

To get a feel of real Industry environment, where all these qualities are expected, a session was conducted for semester 4 students by **Prof. Ankit Raythathha** from **10:00am to 07:00pm**

Objective:

Students were able to

- Understand the Problem.
- Analyze the Problem.
- To develop different Logic for the same functionality.
- Write the Program.
- Verify the output.

on 10th February 2016 to enhance the Analytical, Logical & Computational Skills of the students.

Outcome to Attendees:

- Analytical Skills were improved.
- Logical thinking Skill was improved. Awareness about different logic implementation to perform the same functionality.
- Programming Skills were improved.
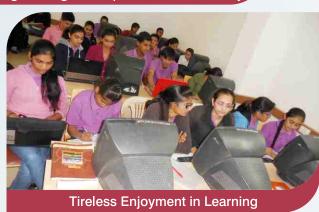- Gained confidence to write an assembly language program.

The unanimous feedback from students - "Do Arrange More & More such long hour coding sessions not only in Microprocessor subject but in other subjects as well", added glory to the successful completion of the session.
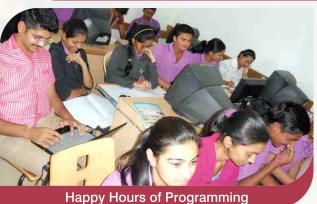
- Ankit Raythathha

Applying the Logic to implement Functionality

Deeply Engrossed

Tireless Enjoyment in Learning

Applying Thought Process

Happy Hours of Programming

Healthy Discussion..Analyzing the problem…

GETTING ADEPT
Presentation Etiquettes

Seminar on "Presentation Etiquettes" was carried out by Prof. Hemal Rajyaguru with scrupulous attention to details of the interactive way delivering a presentation. Students were keen about learning the details of the presentation making, communication and verbal skills.

Prof. Hemal Rajyaguru sharing his expertise on "Presentation Etiquettes" with students.

Students were ranked based on their observatory power. Students who displayed commendable performance were:

Rank 1: Zeel Budhabhatti   Rank 2: Priya Pandey   Rank 3 :Pratishtha Gorasiya

ACHIEVEMENTS

Faculty Achievement

Prof. Dhruv Patel, Faculty at Department of Mechanical Engineering-BHGCET authored & published paper on "To Control die setting time by the using of piston cylinder mechanism", in NCIME-2016. Paper has

Prof. Dhruv Patel at One day National Conference, INDUS University

proceeding of "International journal of engineering research and technology". (ISSN: - 2278-0181) at One Day National conference entitled "Innovation in Mechanical, Automobile, Civil Engineering & Materials Technology", on 13th February 2016 in Indus University campus.

Participated in FDP Design Engineering

Prof. Hitesh Parmar of Electrical Engineering Department had participated in 4 days **FDP on Design Engineering** organized by GTU from 19th to 22nd

FDP Group members

Feb 2016. According to him Design Engineering is a very good subject for enhancing the thinking and learning capabilities of Engineering students. Through the design thinking methodology the students are encouraged to do the new innovation

Receiving the Certificate from Prof. Lee from China

in their field which will be helpful to the society.

Students Achievement

Pragnesh Mehta and **Hardik Zalera** Students of Department of Mechanical Engineering have presented a paper titled **"To Control die setting time by the using of piston cylinder mechanism"** on 13th February 2016 in Indus University campus. The project was guided by Prof. Dhruv Patel (Department of mechanical Engineering).The paper has proceeding of "International journal of engineering research and technology. (ISSN :- 2278-0181)"

Pranesh Mehta and Hardi Zalera presented paper at one day national conference, Indus University

OUTSTANDING PERFORMANCE

Glittering Gemstones of Gardi Vidyapith

"Kaizen - Continuous improvement" is a dictum applicable to every factor in human life. A proficient team of students - **"Arjuna"** comprising of **Harsh Vekariya, Harshid Marakna, Darshan Vasoya** and **Hardik Kanasagara** from Gardi Vidyapith eminent for their performance in robotic competitions following the same approach, progressed a footstep by participation in events as mentioned below and embarked the flags of success.

1) **"Technex 2K16"**, a national level technical fest organized by **St. Vincent Pallotti College of Engineering & Technology, Nagpur** and

2) **"ILLUMINATI' 16"**, systematized by **ITM Universe College of Engineering & Technology, Baroda**.

Technex 2K16 was organized on 20th & 21st January, 2016

Accomplishments

Technex 2K16	Illuminati'16
3rd Rank - Crane Bot	1st Rank - Sumo Bot Wrestling
3rd Rank - Aqua Combat	3rd Rank - Clear The Table
	3rd Rank - Robo Stair Case

which evidenced around **4000** students from countless fabled institutes of **Maharashtra, Tamil Nadu, Delhi** and **Chhattisgarh** participated. In the bunch of giant show, our students' team validated their superlative performance.

On the other hand, **Illuminati' 16** was held on 11th - 13th February, 2016 with mammoth participation of zonal and regional competitions. Our team performed remarkably well with worthy spots in 3 different events.

Team "Arjuna"

Effective Execution of tasks