



RNI No. GUJENG/2013/49300
Retail Selling Price : Rs. 10/-
Annual Subscription : Rs. 100/-
Published Date : 10th of Every Month
Language : ENGLISH

time to step ahead...

Posting Licence No. RAJKOT / 635 / 2016-2018
Posting on 15th of Every Month, POSTED AT RMS-RAJKOT

The Gardi Times

EDITOR : DR. SIDDHARTH JADEJA, CO-ORDINATOR : MRS. KIRAN SUHEL SHAH | Year : 7 | Issue : 80 | Page : 08 | OCTOBER 2019

Electrical Engineering

Date : 13th August, 2019

Industrial Visit at Gopal Snacks Pvt. Ltd.

The industrial visit was organized by the department of Electrical Engineering for the students of 3rd, 5th & 7th semester to aware and provide knowledge of PLC (Programmable Logic Controller) used in industrial automation and power electronics devices which is useful for such system. The visit was very helpful to students as far as electrical control system is concerned.

The visit was conducted by Prof. Tarang Joshi. The HR department of Gopal Snacks was very supportive and positive toward students as they were so free to raise and ask any question. The main purpose of the visit was to show the production process and management (Both Human resources and Time). Students were shown following departments sequentially.



- (1) Raw Material Department
- (2) Frying Department
- (3) Packaging Department
- (4) Storage Department
- (5) Dispatch Department

Electrical Department at Gopal Snacks

The PLC unit is so effective that any chance of even a small single mistake is eliminated from the company and their storage department is really like a spider net. Then everything reaches to its destination without any delay which is only possible by implanting quality PLC system in to product line.

It was amazing to see how they are utilizing GRAVITY for goods transportation and conserve most energy of machine as well as human. Students learnt by seeing their dispatch facility as it was also utilizing the gravity and no human was there to arrange goods into trucks the conveyor was of automatic length adjustment type.



Prof. Tarang Joshi Giving Token of Memory

One Day Workshop on Python & IoT

Python is a general-purpose language, which means it can be used to build just about anything, which will be made easy with the right tools or libraries.

How Internet of Things (IoT) is changing everything around us :

- Interface different sensors with Arduino Uno.
- Interfacing controller to a Modbus based device.
- Familiarize coding structures in Embedded C Programming.
- Live Project Demonstration.

The workshop was arranged by Prof. Hardi Sanghavi and Prof. Birju Tank on 14th September, 2019 for more than 70 students of 5th semester CE & IT students.

From the invention of the wheel in ancient history to the modern day drones, engineering constructs have provided the vital push for the progress of human technology. Taking note of how important engineers are for the growth of nations, we celebrate the Engineer's Day on 15th September every year.

Everything today revolves around technology. From simple things like watches and cars to complicated infrastructure networks, everything can be connected to the Internet and become a gadget. Since it is such an important aspect of our life, students need to stay updated

regarding the latest and hottest topics in technology.

As a part of Engineer's day celebration, CE/IT/MCA department arranged workshop on Internet of Things (IoT) & Python by Prof. Hardi Sanghavi and Prof. Birju Tank. They give the valuable practical knowledge to the more than 80 pre-final year degree engineering students of CE/IT department about both technology and makes student aware about what would be the role of these in current scenario.



Students Implementing Python Coding under the Guidance of Prof. Hardi Sanghavi

Following topics were covered for Python in this workshop:

- ❖ Basic Introduction to Python
 - What is Python? (Hint : definition)
 - Why you should learn Python? (Hint : current salary & growth trends of python in the market)
 - Where Python can be applicable? (Hint : different areas of application of Python)
 - Who are using Python currently in the IT field? (Hint : famous IT and non-IT industries)
 - Which are the different platforms available for using Python? (Hint : different Python IDEs)
- ❖ Hands on and Demonstration of sample applications developed in Python
 - Basic Python (installation, execution of program, rules for python programming)
 - GUI applications using Tkinter module
 - Data Science using Numpy and Matplotlib module
 - Simple application using OpenCV and Matplotlib
- ❖ Sharing information for Free Online Courses available to learn Python
- ❖ Basic Introduction to Machine Learning and its demonstration



Students Enthusiastically Attending IoT Workshop Under the Guidance of Prof. Birju Tank

Following topics were covered for IoT in this workshop:

- What is IoT?
- Discussion about different Applications.
- What are the projects can be accomplished using an Arduino.
- Discussion about different boards like NodeMCU
- Demonstration of Live Projects Developed by Faculties and Students

Outcomes:

- Programming skills in python will be improvised
- Participants will be introduced to exciting world of IOT.
- Gain insight on the challenges and opportunities of IoT.
- Students came to know about practical applications of IoT like heart rate, blood pressure measurement, Home automation system.
- Workshop includes Demonstration of various IoT Projects

ASME-BHGCET Represented Student-Led Design EFx'2019



Hackathon Booklet



K-12 Workshop



Key Note Speaker

Students around the State of Gujarat put their ingenuity and design skills to the test during two day event that was held this August in Rajkot, Gujarat(India) at ASME EFx, hosted by B. H. Gardi College of Engineering & Technology.

Fascinatingly, EFx was introduced as a 2-day event which consisted of Design Hackathon for 25+ hours, Keynote Workshop, K-12 STEM Workshop, ECE Meet up.

Nearly 1000+ students took part in the event, constitutes of 450+ participants with 70+ teams in Design Hackathon, 400 students in K-12 STEM Workshop and 150 participants in Biomimicry Keynote Workshop Which were held on Aug 30th and Aug 31, 2019.

Our special guest Ms.Erin Dolan (Program Manager, ASME), Prakhardeep sir (Programs & Philanthropy ASME), and Mr.Madhukar Sharma (President, ASME-INDIA) were present in the event there to give appreciation to all the students.

Design Hackathon, being a part of the EFx event conducted to solve real-world rural problems using design thinking rubrics. Domains such as Farming, Livelihood & Employment Generation, Health Care & Water Resource management were introduced to 70+ Teams of Hackathon. Around 450+ students were engaged as participants from various backgrounds such as Engineering, diploma, MBA & MCA and that too from all around Gujarat state.

Key takeaway from hackathon are

- (1) Student-Led Design Event.
- (2) Hackathon design on Design Thinking
- (3) The participant Had to force creative muscles to dig out the root cause.
- (4) No internet in the first phase.
- (5) Students of multidisciplinary had attended the event.

(6) The host learned how to start up & participant learnt how to build product ideas.

Our Judges Mr. Bhavin Dabhi (Director & Founder, UDLAB), and Mr. Ravi Karoriya (Founder, EngiLabs Laser Technology) were the external industrial evaluators scored on projects creativity, technical depth, challenge of doing the task in a short amount of time, and usefulness in the real world.

The winner announced had designed a solution for Farming and livelihood opportunities who had prepared the Groundnut extraction machine.

The 1st runner up had designed a solution for Health Care by preparing Phototherapy Machine.

The 2nd runner up had Design a solution for the farmer by designing a sensor based Animal Intrusion Fencing.

On 31st August, Workshops were conducted in Convention Center of Gardi Vidyapith by the keynote speakers Mr.Prashant Dhawan (Biomimicry), Mr. Deepak Rajsar (Current Scenario In Industry & IoT), Mr. Prakhar Deep, and Mr. Madhukar Sharma. Therefore, STEM K12 activities for nearby school children from grade 1 to 12 were conducted in the Workshop in which a Project-based activity learning environment was created. Small talk on Early Career Therefore Engineers (ECE) was organised in Discussion Room with 20 Professional Delegates.

To the End, for the Valedictory function, Hon'ble Shri Bhupendrasinh Chudasama, Education minister of Gujarat and Dr. Arjunsinh Rana Vice Chancellor of Swarnim Gujarat Sports University were present on 31st august to give inspiration to all the students about the importance of education and sportsman spirit in the life, adding that such kind of event which is useful to make education ethical. In his presence, winners of the Hackathon Team were awarded with prize money and honor.



Inauguration of ASME- E Fx- BHGCET



Event Design Thinking and Problem Definition



Valedictory Function



1st Rank for ASME -EFx Hackathon

The principal of BHGCET, Dr. Siddharth Jadeja and Head of Mechanical Department Prof. Priyank Zaveri gave the vision to all the 65+ volunteers who took a lead and handled it. Whereas Mr. Rohit Solanki and Mr. Dhaval Trivedi served their roles as Event Designer, Program Manager & Mentors to all the participants, as well as 65+ volunteers team who were recognized for handling all the tasks of the event.

This event had been Student-Led Design Event as every part of the event was design & executed by a team of Volunteers and Mentors. This event continued till 33 hours and & It has been considered one of the was the longest event as per the ASME-EFx record.



Conti... from page 7 - One Day Workshop..

Outcomes:

Participants get following things after completion of workshop:

- How to Do SEO.
- Students can implement all the SEO strategy in her own webpage and site
- Knows the how company can do SEO from basic to professional site.
- Knows proper guidelines of optimization of search engine.
- Knows the most useful & widely used tools and techniques.



Students Practicing SEO Activities for Their Own Blog

One Day Workshop on Live SEO Implementation

Setting goals and objectives for your SEO strategy is the first step in determining the keywords on which you want to build the content of your website.

- Generating Traffic
- Branding
- Marketing
- E-commerce purpose
- Target Customers

One such workshop was organized by the department of CSE/IT 3rd semester students on 14th September by Prof. Maulik Borsaniya.

SEO can have a dramatic effect on the traffic that you draw to your website; the perceived quality, relevance and trustworthiness of your brand; and the amount of revenue that can generate through your website.

Participants of 3rd semester students created their own blog and Prof. Maulik Borsaniya explained about Why Your Website or Blog Needs Search Engine Optimization?? The majority of web traffic is driven by the major search engines like Google or Bing. Although social media and other types of traffic can route users to your website, the bulk of website traffic is driven by search engines. This statement is true regardless of your website's purpose.

Search engines are powerful because they provide targeted traffic. Or in other words, search engines bring users that are seeking what you offer or sell. Targeted website traffic

provides revenue and exposure like no other channel of marketing. Investing in SEO can have a much higher rate of return when compared to other types of marketing efforts. You need solid SEO to compete online and to obtain traffic Period.



Students are Learning to Create Their Own Blog in Group

The topics which are covered in session are as follows:

- Tips and webhosting for SEO
- Search Engine Comparisons
- Blogging & Earning
- Keyword generation techniques with online best tools.
- On page & off page SEO Live.
- Sitemap & robot file of search engine.
- SEO site Accessibility tools & extension.
- RSS & Google Business.
- Google analytics & webmaster basic & useful.



Prof. Maulik Borsaniya Conducting Workshop



Prof. Maulik Borsaniya Guiding Students About Keyword Generation Techniques

MCA 3rd Fresher's Day

A Day To Remember

With this thought in mind MCA newly taken admission students eagerly waited for the fresher's day party which was on 8th August, 2019. Students dressed up in colorful cloths which reflected the beautiful rainbow. All the students have mixed feelings of anxiety and excitement in their heart. Super Seniors of the MCA 5th semester welcomed their juniors very beautifully by throwing flowers on them. Super Seniors of MCA 5th semester students planned so many activities for their juniors like one minute game, fashion show, dance, and music competition. All

senior and juniors participated in different activities earned pen drive as gifts.

During the functions some Challenges were given by seniors to juniors and based on those challenges Mr. Fresher and Miss Fresher's contest was announced. Finally the day came to an end with everyone clicking pictures, interacting with each other, making new friends and carrying home lots of beautiful memories. This day indeed turned out to be a memorable one for every student at the fresher's party in different ways and will be cherished forever.



Wishing you and your family a very
Happy Diwali & Prosperous New Year!

