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EVERYTHING YOU NEED - Electrical Engineering ELECTRODUINO

To celebrate 132nd birthday of Dr. C. V. Raman, Department of Electrical Engineering from B. H. Gardi College of Engineering organized a one day workshop entitled "Electroduino - A day with Arduino (Level-1)" for more than 100 students of 1st Year of different engineering branches. This workshop was organized on 7th November, 2019.

1st session was based on the information of Arduino and several microcontrollers available in the market. A comparative study of different micro controller with Arduino Board was explained. 2nd session was totally hands on session with Arduino boards and different sensors. In this session students have interface

sensors like Temperature, Moisture, Humidity, Infrared, LDR, Ultrasonic, Servomotor, etc with the help of Arduino board under the mentorship of senior students.

This workshop was done under GIC, which helps to support the innovative ideas of the students. Prof. Tarang Joshi organized this workshop. Dr. Siddharth Jadeja - Principal, BHGCET congratulated the team of faculties and student mentors for their efforts. He mentioned that BHGCET always try to rejuvenate technology education and develops quality research at the university and helps create a culture of design, new and improved products.



Intellectual Property Right

Intellectual property is a category of property that includes intangible creations of the human intellect. There are many types of intellectual property, like copyrights, patents, trademarks, trade secret, geographical indication etc. To make aware aspiring engineers of 1st semester and MCA 3rd semester students with this IPR, a session was arranged by IPR Coordinator Prof. Aparajita Biswal.

This session included the importance of IPR. The protection of Intellectual Property Rights (IPR) is important for the economy and for its further growth in areas such as **research, innovation and employment.**

She also explained the students that when any innovative research is done by the students, they generally show case their projects to various media without knowing that they should go for

patent filing so that economically they can get benefit. For entrepreneurship, trademarks registration should be there for effective industrial growth.

If students get their own rights they will get the maximum benefit from industries if the industries want to implement the ideas of our students. Industries came to know about the ideas if and only if they get it registered by their names.



Presentation Etiquettes

A Magic Formula

The expert talk entitled "Presentation Etiquettes" was taken by Prof. Hemal Rajyaguru, HOD of Computer Engineering, for the students of 3rd Semester CE/IT on 27th August 2019. More than 50 students have participated with great enthusiasms. The aim of talk was to guide students about how to present your presentation with effectiveness. Regardless of whether your presentation is for a social group, the office, or family meeting Presentation etiquette should always be followed as it helps you in conveying your message to the audience in a desirable way.

In the very beginning, expert had talked about how to start a particular presentation. It was the beginning of the conversation that can make or break it in capturing your audience's attention.

The talk was followed by briefing of how to give effective technical presentation whether at a conference, to your research group, or as an invited speaker at another university or research laboratory. This includes how to start preparing a talk and to know your goal and know your audience.

Topics Covered:

- How to start a presentation

- Guidelines for technical presentation
- How to conclude presentation
- Do's and Don'ts during presentation
- Rules for making presentation
- Structure of presentation
- Rules to be followed during presentation
- Presentation Skills - organizing and structuring content of presentation
- Delivery of presentation - voice modulation, eye contact, body language and others

Outcomes:

- Improvement of presentation skills
- Makes Communication clearer
- Makes good first impression
- Networking and establishing connection
- The skills to use and control your voice more effectively when giving presentations
- Determine and develop personal presentation style
- Able to deliver an enthusiastic and well-practiced presentation

CE/IT/MCA

Workshop on IoT

A workshop is a great way for someone to learn about a particular subject, learn new projects, and methods in order to better you. Attending workshops can help students achieve success in their academic environment by putting these skills into practice. A day long workshop was organized for the students of 3rd semester CSE/IT on 24th October, 2019 by Prof. Birju Tank.

Mr. Nirav Madhvani was the expert for the day.

Owner at Possible Automation & Control System. He is an entrepreneur in the field of IoT. He has conducted more than 100 workshops on IoT all around the Gujarat. He is providing industrial solution to many automation companies, industrial Control Panel Work and also provide industrial Automation Training.

Objective:

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

Conti... page 7

"Engineeirng - The Art Of Doing"

VISIT @ MITTICOOL WAKANER UNDER UBA

Students of *BHG CET* went to Visit *Mitticool*.

A UBA Coordinator **Prof. Parag Paija** and more than 35 Students visited the workplace of Mitticool on 15th October 2019 where amazing products were made using Mitti. They saw the process of all work being done there and learned about the procedure.

There was interaction with the founder of Mitticool **Mr. Mansukhbhai Prajapati** at the showroom. He gave brief about his life - how even after being unsuccessful in study he became successful by doing hard work and by his love of doing something good for others using his engineering mind. He motivated students for new and innovative work.

He also told students how they are trying to use new technology day by day. They were very pleased to meet the students and offered internship programs for interested ones. He suggested how students can be visionary to find innovation in everything in day to day life. He also suggested projects for the students.

It was really a worth visit there and students were also seemed to be really satisfied with all this.



Visit to Duroply

Industrial visit is considered as one of the tactical methods of teaching. The main reason behind this industrial visit was to let students know things practically through interaction, working methods and employment practices. Moreover, it gives exposure from academic point of view. Main aim of industrial visit is to provide an exposure to students about practical working environment. They also provide students a good opportunity to gain full awareness about industrial practices.

In line of that we, MBA students of the Kumari M.H. Gardi School of MANAGEMENT visited a manufacturing plant on 4th oct. 2019 at DUROPLY PVT. LTD. Located at Shapar Veraval. There was around 50 students who attended the Industrial Visit. The purposes of this Industrial Visit were to gain practical knowledge of Marketing and HR Activities of this SME.



This industry was established in 1957 founded by Shri P. D. Chitlangia. He started Manufacturing Plywood, Block Board, Doors and Wooden sheet. This industry was started in Asam State but due to changes in Government policies later on 2000 they have shifted their plant at Rajkot, Gujarat. This industry is

sprayed in 60 acres in present plan at Shaper Veraval, Rajkot.

DIL's manufacturing facilities are equipped with state-of-the-art machinery and have the required infrastructure to produce all varieties of plywood. Raw materials are sourced indigenously as well as from overseas. Quality Assurance techniques ensure that their products conform to industry standards across all processes in their value chain. Research and Development is at the core of DIL's success story. In fact, their continuous efforts to innovate have led to a robust product range which creates value to their customers. DURO - flagship brand is synonymous with superior quality and performance. Their endeavor is to provide their customers with the finest quality products at competitive prices and service for hundred percent customer satisfactions.

They continuously invest technology that will provide preferred lifestyle through superior products. They offer the widest brand choice to customers with the commitment to innovation and understanding of consumer needs. They are maintaining the highest level of professionalism, integrity and honesty in dealing with their stakeholders. They are providing exceptional services, offer responsible industry leadership, create profitable growth in harmony with environmental sustainability and good corporate citizenship with dedicated professionals.

And the end of the process of the industrial visit we met the HR Manager Mr. Kanjibhai Sodha, we had asked the several question regarding the industry such as Government policy that affect the industry, market scenario of the industry, regarding effect of GST, about target market, regarding welfare facility of the employee, and so on.....

We sincerely Thankful to the Honorable trustees, Director and faculties of Kum. M H Gardi School of Management for organizing such a wonderful visit.

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

SESSION BRIEFING:



Mr. Nirav Madhvani Gives Live Demonstration

The workshop commenced with welcome speech by Prof. Hemal Rajyaguru and brief Introduction of IoT by Prof. Birju Tank. The expert Mr. Nirav Madhvani explained the real-life scenario of IoT world with live demonstration of some IoT projects with their

components and devices. The internet of things helps people live and work smarter as well as gain complete control over their lives. Prof. Birju Tank has covered some what theoretical part of IoT. He had discussed analytical data about IoT and its practical applications.

Mr. Nirav Madhwani from possible automation gives totally practical knowledge to the Students. He had shown different devices related to IoT like Bluetooth device, GSM device, NodeMCU, Raspberry Pi, Arduino, Moisture sensor, Fire sensor, water level measurement sensor etc. He had also demonstrated projects with code. Students really enjoyed the session and got the practical knowledge. They also got to know about challenges and opportunities available in the field of IoT

Topics to be covered:

- Initially making their Basic concepts clear which are specially related to the IOT & Embedded including Electronics Fundamentals, ARDUINO, NODEMCU,

RASPBERRY PI, IOT KIT, Home Automation KIT, IOT Sensors, C Programming, IOT Web browsing,

- Secondly, giving them appropriate knowledge related to the components employed. We bring all the necessary components and the instruments.

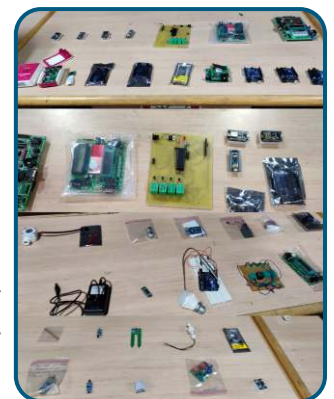
- Providing them live Demonstration of applications of various instruments.
- Letting the students involved in the session by providing them enough freedom to interact during the workshop.
- Solving the doubts of the students, as we aim at gaining their satisfaction.

Outcomes:

- With the proper understanding of the basics of technologies as well as
- Fundamentals related to the Automation Industry; the seminar will not only help them to improve their academic score but will also help them further.
- By providing a platform to the curious students to solve their doubts, we desire to attain optimum gratification from their side.
- With the demonstration done during the workshop, they will be able to grasp the concepts along with enjoying what they are doing.
- We provide the curious and deserved students quality and genuine platform to build their knowledge and further building their bright career.



Students Attending Workshop



IoT Components

Flip Class on Hall Effect in Physics

A flipped classroom is an instructional strategy and a type of blended learning that reverses the traditional learning environment by delivering instructional content, often online, outside of the classroom. It moves activities, including those that may have traditionally been considered homework, into the classroom.

Prof. Manish Patel, Head of the Department of Humanities and Science arranged flip class activity for the first year students to make them

understand the topic Hall Effect in the Physics subject.

To execute this activity successfully he provided a few videos related to Hall Effect.

The students were supposed to undergo small **Out-class assignment** related to main video, and later on again In-class assignment was provided.

It is worth mentioning that students followed Think, pair and share strategy and learnt the topic very interestingly.



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