

GTU INNOVATION COUNCIL

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SOLVING REAL LIFE PROBLEMS USING RASPBERRY PI

Date: 30th August, 2018

Time: 10:30 am to 5:00 pm

Venue: GTU Innovation & Startup Center, AVPTI campus, Rajkot

Speaker of the event: Mr. C.H. Vithlani (Professor of GEC Rajkot)

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GTU Innovation Council (GIC) at a glance

GTU Innovation Council (GIC) has been designed to establish close bonding between industries, entrepreneurs, faculty members and students to make research and development at the University, relevant to the needs of industries at national and international levels. It helps to create a culture of design, new and products augmentation and processes in the arena of industries. GTU Innovation Council as an innovation campaign has started strategic steps to establish a close and continuing inter-action for the students in all the undergraduate and postgraduate courses. GTU Innovation Council is one of the elite organizations of the nation for cultivating multilayer innovation ecosystem. Through the efforts for creating culture of innovation and entrepreneurship in 7 years, an aura of developing the ecosystem across the state was conceptualized. The pilot projects and efforts have ideated many policies which have helped to change and shape up innovation and entrepreneurial mind-set of students.

About The Event:

The session began with introduction concerning GTU Innovation Council and its efforts in building entrepreneurial ecosystem across Gujarat. On 22nd September 2018, Solving Real Life Problems Using Raspberry Pi Event conducted by Dr. C. H. Vithlani, Principal of Government Engineering College, Rajkot Center. There were about 50+ students present in the event. Ms. Foram Chandarana initiated the session addressing all the students.

Highlights of the Event:

The first session was all about Arduino. Dr. C.H. Vithlani introduced about Arduino and importance of Arduino. Next was configuration of Arduino. Then associates distributed all the components to the students per group. And Sir introduced work of all the components. Arduino is an open-source electronics platform based on easy-to-use hardware and software. Arduino boards are able to read inputs - light on a sensor, a finger on a button, or a Twitter message - and turn it into an output - activating a motor, turning on an LED, publishing something online. In

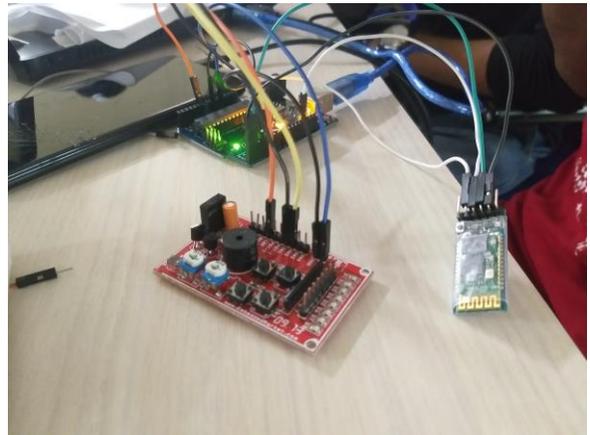
this session, they did one practical which was blinking of the LED. There were also many programs which were performed by students.



The second session was started after the lunch break. In the second session, Dr. C. H. Vithlani introduced about Raspberry Pi. Raspberry Pi is a series of small single-board computers. The Raspberry Pi is a low cost, credit-card sized computer that plugs into a computer monitor or TV, and uses a standard keyboard and mouse. It is a capable little device that enables people of all ages to explore computing, and to learn how to program in languages like Scratch and Python. It's capable of doing everything you'd expect a desktop computer to do, from browsing the internet and playing high-definition video, to making spreadsheets, word-processing, and playing games. Then discussed how to configured Raspberry Pi 3 B+ kit with computer or laptop. After that, Students had learned about work of each component. Now-a-days Raspberry Pi is more useful than Arduino. In these session, they did practical such as LED blinking, Switching, Buzzer. In Raspberry Pi, Bluetooth Module, GPIO (general purpose input-output), Control IC, HDMI output display were discussed. There was also one interesting topic which was Camera interface. After discussion, students had performed some practical and activities.

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Compiled and Edited by
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