

## Details Raspberry Pi Workshop

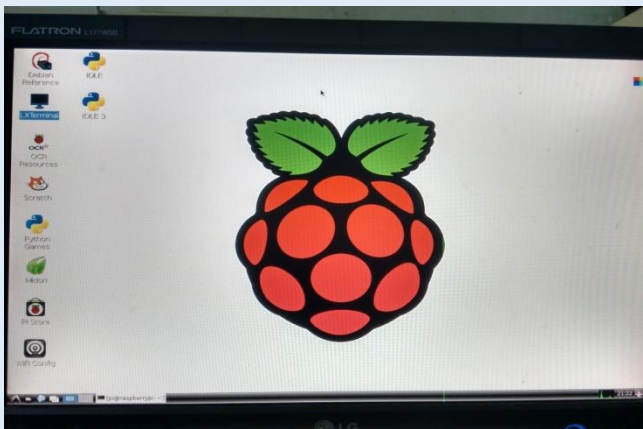
<b>Name of Event</b>	:	Raspberry Pi
<b>Date of Event</b>	:	19 <sup>th</sup> Feb 2018
<b>Venue of Event</b>	:	LD College of Engineering Ahmedabad
<b>Objective of Event</b>	:	The Raspberry Pi is a low cost, credit-card sized computer that plugs into a computer monitor or TV and uses a standard keyboard and mouse. It is a capable little device that enables
<b>Arduino Programming</b>	:	to explore computing, and to learn how to program in languages like Scratch and Python. It is capable of doing many things, we would expect a desktop computer to do, from browsing the internet and playing high-definition video, to making spread sheets, word-processing, and playing games.
<b>How it will be useful to student</b>	:	
<b>What skill will be developed</b>	:	Programming Skill will be developed. They will read data from board, on sensor and social network.
<b>Participant student Branch</b>	:	Electronics and Communication,
<b>Entries</b>	:	<b>52 Participants</b>
<b>Faculty Mentor</b>	:	<b>Asst. Prof. Raj Hakani (CiC3 - GTU)</b>

**Asst. Prof. Raj Hakani**, gave introduction of About Arduino board & its flavours, different type of sensors and actuators Processor, architecture of ARM 11, Introduction of Operating System and OS for Raspberry - Pi.

The following topics were covered in the Hands-on workshop:

- Introduction to Linux
- Introduction to Raspberry-Pi
- Operating porting

- Basic commands of Linux
- Shell scripting
- Python programming
- Scratch programming
- Gpio programming and script
- Python Gpio programming
- Interfacing with LEDs & LCD
- Interfacing with Sensors
- Interfacing with Actuators



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