

**Innovation and Incubation centre G.E.C Valsad.**  
**Summary of the report on**  
**One-day Workshop on**  
**“Role of Controllers in Innovation & Research”**  
**7th September, 2019**

The one day workshop on “Role of Controllers in Innovation & Research” was scheduled on 7<sup>th</sup> September, 2019 by Innovation HUB, District Science Centre, Dharampur in collaboration with Government Engineering College, Valsad at Electrical Engineering Department, GEC, Valsad. Around 45 enthusiastic students of final year & faculties from Electrical Engineering have participated in this workshop. Workshop consists of two technical sessions for explaining theory & demonstration of different applications. Both sessions were conducted by Mr. Priyank Parmar, Junior Mentor, Innovation HUB, DSC, Dharampur.

First session was started with motivation on Innovation & Research. In this session Mr. Priyank



**Prof. Archana Parmar giving memento to expert Shri Priyank Parmar.**

has explained the design cycle of how innovation can be done. After that he briefed about soft computing techniques & explained Fuzzy Logic controller and gave demonstration of projects while comparing results of P-I, P-I-D & Fuzzy Logic Controller. And also explained how Fuzzy toolbox can be used. The session gave good



**Speaker demonstrating the role of Microcontrollers in innovation**

Microcontrollers in our day to day life. Mr. Priyank gave brief details of different controllers used in Embedded System like 8051, AVR. After that he explained about Arduino which is used for different types of applications. During this session he has explained how programming can be

depth about the techniques and research work carried out in the field. During this session head of Electrical department Prof. Kashyap Mokariya has also explained about various soft computing techniques.

Second session was started with showing different applications of

done in Arduino & demonstrated some projects based on Arduino and some other advanced controllers. A Quad Copter was demonstrated in the evening session.

At the end of workshop, participants shared their review, based on that we can conclude that they really enjoyed both the session of workshop. Whole event was motivated and supported by head of department Prof K L Mokariya and Principal Dr V S Purani with their guidance and necessary suggestions for improvement.



**Demonstration of Quad copter at Elect Engg Deptt**



**Demonstration of applications of controllers**



**Prof Jadav Giving Memento to the Expert**

### **Outcomes of the Event**

- **The goal of organised the Event was fulfilled after the completion of workshop**
- **Out of 45, total 37 students found it very important and one of the way to implement their SSIP POC Project.**
- **Students of fifth semester shown their willingness to attend such program in future after getting feedback from their seniors.**