



## **GokarajuRangaraju Institute of Engineering and Technology (Autonomous)**

### **Report of the Event**

**Title of the Event:** Workshop on "Simulations of Raspberry Pi with wireless sensor networks" on TEQIP-II-II

**Organized Date:** 2nd and 3rd march 2015,GRIET.

**Faculty:** Dr Padmalaya Nayak

#### **Summary:**

With over a decade of intensive research and development, wireless sensor network technology has been emerging as a viable solution to many innovative applications. In this workshop, we describe a wireless sensor network system that we have developed using open-source hardware platforms, Arduino and Raspberry Pi. The system is low-cost and highly scalable both in terms of the type of sensors and the number of sensor nodes, which makes it well suited for a wide variety of applications related to environmental monitoring. Overall system architecture and the design of hardware and software components are presented in details in this paper. Some sample deployment and measurement results are also presented to demonstrate the usefulness of the system.