B.N.M. Institute of Technology

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Post box no. 7087, 27th cross, 12th Main, Banashankari 2nd Stage, Bengaluru- 560070, INDIA

Ph: 91-80- 26711780/81/82   Email: principal@bnmit.in, www. bnmit.org

Department of Electrical & Electronics Engineering

Title of the Workshop: "Internet of Things using Raspberry Pi"

Workshop Conduction Date: 11th& 12th October, 2019

Participants: Student members of "Institution of Engineers India Students' Chapter", Dept. of EEE, BNMIT.

A two day workshop on '**IoT using Raspberry Pi'** was organized by the Department of EEE under **Institution of Engineers India Students' Chapter, BNMIT.** This workshop was an opportunity for the third year under graduate students to enrich their knowledge and skills in developing various engineering solutions. The MATLAB, which is a scientific language, has several engineering tools such as Power Electronics, power systems, Signal Processing, Artificial Intelligence in order to simulate Electrical, Electronic and Mechanical systems. MATLAB programming very important to build user defined blocks to do particular task. The interfacing with hardware can be done using MATLAB software. But python is a high level language which is more powerful for all embedding interfacing applications. The topics covered during workshop were: Introduction to Raspberry Pi, Python Programming Concepts and Interfacing Sensors. The hands-on sessions were conducted by the industry experts from M/s Telos Technologies, Bengaluru and RS Components, Bengaluru. The participants were able to gain practical knowledge about Python Programming, Raspberry Pi Concepts, Interfacing Sensors and Communicating the Data Acquired to the Cloud. The outcome of the workshop was quite useful for the participants to do better projects in future endeavours in the field of Electrical, Electronics and Embedded engineering.