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Approved by A.I.C.T.E ± Accredited by N.B.A.± ISO 9001-2000 Certified

Department of ECM

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Academic Staff College

A report on 4-day refresher course from 27.06.2017 to 30.06.2017

In association with Academic Staff College, Dept. of ECSE had conducted a refresher course on "**A 3 day refresher course on IoT**" from 28/06/2017 to 30/06/2017, the 3 resource persons from SmartBridge Technologies, Hyderabad had taken session for the course.

Day 1 (28/06/2017): The session stared with Inauguration, introduction to IoT (Internet of Things), Arduino Uno Development board, hands on Arduino IDE, integration of different sensor to Arduino Uno and verifying the output of sensor. At the end of day one the faculty had a good hands on with sensor integration with Arduino Uno Development board which is the base for IoT.

Day 2 (29/06/2017): Session started with Node MCU 1.0 board, this board contains microcontroller with on board WiFi which is used as a node to connect to the internet/Cloud. At the end of day the good understanding of connecting the device to cloud and to push the data of sensor to cloud.

Day 3 (30/06/2017): Session started with the introduction to the Raspberry Pi3 B boards, identifying of GPIO (General purpose Input Output) Pins of the boards, Booting of operating system, integration of sensor to the Raspberry Pi, uploading of data to the cloud, Designing of Android App to assess the data from the cloud.

At the end of 3 days the faculty had a hands-on, what is IoT, 3 different types of microcontroller Boards, Integration of sensor, connecting the microcontroller to the cloud/Internet, Designing of Android App using MIT app Inventor.