





Centre of Excellence in “Internet of Things”

Department has established “Centre of Excellence in Internet of Things” to train the students of multi disciplines to carry on their Project works. All the required tools and equipments are made available to the faculty to carry their research work related to their domain. Students are encouraged to utilize the centre of excellence to build prototypes of different IoT Applications and many such were developed by the students. The major equipment available in the centre is given below:

SNO	Facility Name	Details	Snapshot
1	Computers	I3 core processor 4GB RAM 500GB HD	
2.	Arduino Embedded Systems Kit	Digital I/O Analog I/O Using analog sensors Using digital sensors Displays (16×2 character , 7 segment LED) Communications (UART , SPI, I2C) Communicating with host computer IR Communication Wireless communication using xBee devices GSM Modem : learning to use AT commands to connect to a GSM Modem Port expanders etc	
3.	ETS Kit	ETS IoT with Raspberry Pi Kit (Sensors: Temperature, Humidity(DHT11),)(Interface: Relay, 3 RGB LED, Buzzer, OLED display	

4.	Additional Sensor Kit	<p>Small passive buzzer module KY-006 , 2-color LED module KY-011, Hit sensor module KY-031, Vibration switch module KY-002, Photo resistor module KY-018, Key switch module KY-004, Tilt switch module KY-020, 3-color full-color LED SMD modules KY-009, Infrared emission sensor module KY-005, 3-color LED module KY-016, Mercury open optical module, KY-017, Yin Yi 2-color LED module 3MM KY-029, Active buzzer module KY-012, Temperature sensor module KY-013, Automatic flashing colorful LED module KY-034, Mini magnetic reed modules KY-021, Hall magnetic sensor module KY-003, Infrared sensor receiver module KY-022</p>	
5.	Lora Raspberry pi kits	<p>Sensors, GPS, Zigbee, GSM</p>	