TARGET AUDIENCE

Ph.D. Scholars, Research Scholars, PG studentsaspiring to pursue education or career in IoT and Embedded Systems Faculty members and Industry Personnel. Hands on Training (Software & Hardware) will be the highlight of this program.

RESOURCE PERSON

The sessions will be handled by internationally renowned experts from R&D Team of Pantech solutions. Hands on training on various software and hardware also provided by industry experts.

MNIT Jaipur

Jawahar Lal Nehru Marg, Indra Nagar, Basant Vihar, Malviya Nagar, Jaipur, Rajasthan 302017

REGISTRATION DETAILS:

- Participants from Rajasthan, Gujarat, Daman & Diu and Dadara Nagar Haveli : Rs.2500*
- Industry/Academic Faculty (others): Rs. 2500*
- Ph.D./Research Scholars(others) : Rs. 1200
- Industry and Others (All) : Rs. 5500

Registration fee(non refundable) includes Registration Kit, Refreshments and certificates only. Spot Registration also available at registration desk. *Working lunch included.

REGISTRATION FORM

Name :

Category (Academic/Industry/Student):

Designation :

Department :

Organization :

City :

Educational Qualification :

Specialization :

Contact Address :

Pincode :

Mobile No :   Tel. :

Email :

Accommodation Required (Yes/No) :

Registration Fee :

Date :

Signature of Participant

28.01.2017 to 01.02.2017
Short Term Training Program

Applications of
"Internet Of Things"
in electrical and electronics engineering

INTERNET of THINGS

Organized by

Malaviya National Institute of Technology, Jaipur

Under purview of DeitY sponsored Electronics & ICT Academy

ABOUT MNIT, JAIPUR

The college was established in 1963 with the name as Malaviya Regional Engineering College, Jaipur as a joint venture of the Government of India and the Government of Rajasthan, Subsequently; on June 26, 2002 the college has been given the status of National Institute of Technology and on 15 August 2007, Proclaimed Institute of National Importance through Act of Parliament. The Institute is fully funded by Ministry of Human Resource Development (MHRD), Government of India. More than 12,000 students have already been graduated since its establishment.

Our Campus Extending into an area of over 317 acres of lush greenery, the campus of the Institute is imaginatively laid-out with a picturesque landscape. It presents a spectacle of harmony in modern architecture, and natural beauty which enthralls and inspires.

ABOUT COURSE

IoT is a wide and rapidly developing area with expected strong and growing implications for the industry. Numerous IoT research and application projects have been done by universities or in joint industry-university consortia in recent years. However an important question is on value creation for industry. IoT applications in the sense of this industry workshop are solutions using IoT technologies to improve industrial manufacturing processes, enable new and efficient ways to do operate production plants, create new service or supervision means for industrial installations, offer an optimized infrastructure, reduce operational cost or improve human safety in industrial areas.From an industry point of view value creation form IoT applications and sustainability are essential.How these problems will be addressed and solved will influence the use of IoT technologies in the industry, on a larger scale, in the coming years.The workshops intents to bring together experts from around the world to discuss and stimulate ideas.

AGENDA

DAY I...
- Introduction to Embedded IOT System
- Developer Suit Overview, OS installation and Architecture
- Introduction to Python and I-o Interfacing
- Interfacing sensors and motor

DAY II..
- Introduction to IOT
- Impact of IOT
- Designing web page Basic of HTML and PHP
- Controlling Devices and Reading input Status from sensors using webpage
- Creating text to speech Using python
- Creating applications with weather updates

DAY III...
- Introduction to API and web services
- Designing SMS API and security OTP app
- Matlab simulink & interfacing sensors
- Camera Interfacing using sensors
- Basic SMTP protocol and Mail server and
- Sending Mail (Security application) mail based Automation

DAY IV...
- Introduction to OpenCV
- Basic Image processing Techniques(read, write, show image & image properties)
- Image Thresholding , Erosion & Dilation
- Finding Contours in Images
- Color identifying, tracking and drawing to create a sample digital art

DAY V..
- Importance of Image Processing In Security and artificial Intelligence
- Watermarking to images (Logo and Text)
- Face Detection and Matching
- Object detection and implementation with IOT