

Brief profile of the Department of E.C.E:

The department of Electronics & Communication Engineering offers one UG program, three PG programs and a Ph.D program. The department has experienced faculty with good publications and research credentials. It has well established laboratories for both teaching and research. The department has liaison with reputed industries and R & D organizations. The department is currently executing number of R & D projects and consultancy works. The department is recognized as a QIP centre for M. Tech program. The E.C.E department introduced two courses for M.Tech (ACS) specialization, namely, IoT and Use cases and Communications for Smart cities.

About NIT Warangal:

National Institute of Technology Warangal, formerly known as Regional Engineering College was established in 1959. Over the years it has developed into a premier institute of higher learning and is ranked among the top technical education institutions in India. There are 14 Departments offering eight undergraduate and 32 post-graduate programmes besides doctoral programmes. About 5000 students across the country and about 500 international students study on the campus. It is a fully residential campus sprawling over 250 acres with excellent infrastructure in the form of state of the art library, seminar halls, guest houses and laboratories.

Teaching-Learning Centre of NIT Warangal:

The Teaching-Learning Centre (TLC) is established at NIT Warangal with grants from the MHRD, GOI under the scheme, 'Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching' (PMMNMTT). Many senior and young faculty members across various departments of the Institute are associated with this center as members of the Core-Team.

One of the important objectives of the center is to

conduct training programs for Aspiring, Newly Inducted and In-Service faculty in Science and Engineering disciplines. Other activities of the TLC include preparation of e-learning materials, offering courses on-line, curriculum development, carrying out research in pedagogy and integrating ICT into teaching-learning process.

Confirmation of Participation:

On receipt of the registration form along with proof of payment of registration fee, eligible participants will be sent confirmation of their participation immediately through Email. As the programme is conducted in a workshop mode with hands-on sessions, the number of participants in the workshop is limited to **50**. *Candidates are advised to register early to avoid disappointment.*

For any queries regarding this workshop, please contact the Coordinator.

Dr. B. Lakshmi

Department of Electronics and Communication Engg.

National Institute of Technology, Warangal

WARANGAL – 506 004. T.S

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About Warangal:

Warangal is the second largest city of the new state of Telangana. It is situated at a distance of 140 km from the state capital Hyderabad (Nearest Airport). It is well connected by Rail (Kazipet Junction is two km away and Warangal Station is 12 km away) and by Road (NH 202). Warangal is renowned for its rich historical and cultural heritage. It was the seat of erstwhile Kakatiya dynasty. It is a seat of tourist attractions with a number of historical monuments like Thousand Pillars Temple, Warangal Fort, Bhadrakali Temple, Ramappa Temple and Lankavaram Lake located in a radius of 30 kms.



**PMMNMTT
Scheme**



*A One Week Faculty Development Workshop
on
Internet of Things*

May 08-13, 2017

Call for Registration and Participation

Coordinator

Dr. B. Lakshmi

**Organized by
Department of E.C.E
in association with
Teaching-Learning Centre
National Institute of Technology
Warangal – 506 004
Telangana state, india**



Preamble:

Many advances in technology in the 21st century are happening concurrently at a very rapid pace, and they are truly touching the lives of human beings. The past couple of years have seen a heightened interest in the Internet of Things (IoT), is encompassing industry, academia and government.

An IoT system involves the Internet and things. These things carry some means to connect to the Internet, mostly in wireless manner using WiFi, ZigBee and Bluetooth through a gateway to the network. Market analysts predict that the number of connected devices will increase from 25 billion in 2015 to 50 billion in 2020. In this context, IoT has assumed great significance because it has been revolutionizing the ways, we live, learn, work, do business and entertain ourselves. Considering the current thrust on Information and Communication Technologies, Electronics Sector Design and Manufacturing by Government of India, and in view of the 'Internet of Things Policy' of Government of India, there is an immediate need for building capacity and developing expertise in Internet of Things.

Course Contents:

- Introduction to IoT,
- Basics of sensors and actuators,
- Omnipresent inexpensive Expressif RF enabled tensilica microcontrollers,
- IoT Protocols,
- Sensing and Actuation.
- IoT Platforms
- Use cases in water, Agriculture, Healthcare and transportation from an Indian context

Workshop Objectives:

1. Sensitize audience to get acquainted with IoT and make them to guide IoT application projects specific to different engineering streams.

2. Give exposure to IoT protocols and application of Python language to IoT applications developed using Raspbian.
3. To impart hands on experience for developing IoT applications using Expressif RF enabled Tensilica microcontrollers.
4. Hands on IoT examples using Raspbian platform.
5. Give exposure to a few other IoT platforms.

Resource Persons:

The faculty from NIT Warangal, experts from Industry and stakeholders from different organizations (to present use-cases) will form the core faculty for delivering lectures and conducting hands-on sessions during the program.

Registration is open to:

- Faculty members working in Engineering and Technology institutions
- Research Scholars and Post-Graduate students aspiring for faculty positions

How to Apply:

Eligible candidates may apply by submitting the scanned copy of the filled-in registration form (attached with this mail/ brochure) along with **scanned copy of the DD / Proof of remittance of the requisite registration fee**(with transaction number if online transaction) by Email to: iot2017.nitw@gmail.com **on or before May 4th, 2017.**

Accommodation:

Accommodation for outstation participants will be provided on request in the Institute Hostels.



Registration fee:

Category of Participants	Local participants(with working lunch)	Residential participants (with accommodation, breakfast, lunch & dinner)
Faculty	Rs. 750/-	Rs. 1500/-
Students and Research Scholars	Rs. 375/-	Rs. 750/-

Note: Registration fee for Faculty and Students of SC/ST category is half of the amounts mentioned above as applicable.

Registration fee may be sent in the form of a DD or remitted through On-line / NEFT to the Bank Account given below. Local participants may also pay the registration fee in cash to the Coordinator in the Department of E.C.E.

Account Name	DIRECTOR,NIT WARANGAL
Account Number	52109375198
Bank	State Bank of Hyderabad
Branch	REC Warangal (NIT Campus)
Branch Code	20149
IFSC code	SBHY0020149

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Sponsored by MHRD, Govt. of India under PMMMNMTT Scheme

REGISTRATION FORM

Name : _____

Date of Birth : _____

Place of Birth: Village/Town/City: _____ Tick as applicable (Rural / Urban)

District _____ State: _____

Gender (Put a \sqrt Mark) : Male Female

Category (Tick as applicable) : **Open / OBC / SC / ST / PWD**

Qualification : _____

Designation : _____

Organization : _____

No. of Years of Teaching Experience: _____

Address for Correspondence : _____

Mobile(s): _____

Email(s) _____

Details of Remitting Registration Fee: (i) Amount in Rs. _____

(ii) Name of the Bank Through which Remitted/DD Taken: _____

(iii) On-line Transaction No./ DD No: _____ (iv) Date: _____

Accommodation (Put a \sqrt Mark) : Required Not Required

Declaration by the Applicant

If selected, I agree to abide by the rules and regulations of the workshop/ training programme and shall attend all the sessions.

Date:

Signature of the Applicant

Recommended and Forwarded

Office Seal

Signature of the Head of the Department/ Institution