



# Two Weeks ONLINE FACULTY DEVELOPMENT PROGRAMME on

## IoT Applications in Smart Metering

(18<sup>th</sup> – 27<sup>th</sup> March 2022)

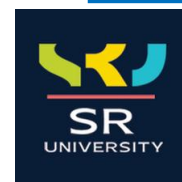
Organized by

**Electronics & ICT Academy, NIT Warangal**

in association with

**SR University, Warangal**

(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)



### Preamble:

"Electronics & ICT Academy" was set up at NIT Warangal with financial assistance from MeitY, GoI. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. This academy's role is to offer Faculty Development Programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

### About the FDP:

This FDP is designed to address research advancements in the Internet of Things (IoT) and its applications in Smart metering. It aims to encourage various zonal professionals/academicians towards research and for their academic quality and improvement. This course will offer a unique opportunity to all the participants in the relevant topics of IoT aspects and its applications in smart metering through theoretical sessions along with simulation environment. It is due to development of IoT based systems which enables swift control and early detection of faults. It connects systems, sensors and actuator instruments to the broader internet. The applications of IOT are not limited to particular fields, but span a wide range of applications such as energy systems, homes, industries, cities, logistics, health, agriculture and so on.

### Major Course Contents:

- Introduction to IoT: Overview and Architecture
- Big data and IoT data Analytics
- IoT in the Electricity Sector
- IoT based Smart Metering Infrastructure
- IoT based Smart Home Automation
- IoT based Smart Distribution system
- IoT based Smart Micro Grids
- IoT based Demand Side Management
- Hands-on practice sessions

### Faculty conducting this programme:

The programme will be conducted in online mode by the faculty members from NIT Warangal; Academicians in the concerned field from IITs/NITs/IIITs are invited to deliver lectures in the programme. Speakers from industries are also expected to deliver lectures as part of the course.

### How to apply:

Participants are required to fill in the online registration form given in the <https://forms.gle/pYJ19Creebfj4oM16>

### Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 100. The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the DD will be sent back. Candidates will be issued satisfactory certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

### Registration Fee Particulars:

Faculty and Research Scholars	Rs.500/-
Industry Participants	Rs.1500/-

### Important Dates:

Last date (Application & DD)	15 <sup>th</sup> March 2022
Selection List by E- mail	16 <sup>st</sup> March 2022
Duration	18 <sup>th</sup> - 27 <sup>th</sup> March 2022

Participants need to pay the Registration Fee online using the following details:

Online Transfer Details	
Account Name	Electronics & ICT Academy NITW
Account No	62423775910
IFSC	SBIN0020149
Bank and Branch	SBI, NIT Warangal

### Course Evaluation:

Continuous assessments at regular intervals. Assessment includes MCQ's, Fill in the Blanks, True/False and/or scenario based questions.

### About NITW & EED, Warangal:

NIT 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. Its R&D activities have gained momentum with funding/MoU from governmental agencies/industries.

The Electrical Engineering Department (EED) was established as one of the major departments of NITW, in the year 1959. It offers B.Tech in Electrical & Electronics Engineering, M.Tech program in Power Electronics & Drives and Power Systems and Ph.D program. Warangal is known for its rich historical and cultural heritage.

### About SR University and EEE Dept, Warangal:

Sri Rajeshwara Educational Society, the parent body of SR University is a 45-year-old conglomerate of educational institutions with more than 90,000 students and 10,000 teaching and non-teaching staff members. SR Educational Academy governs 95 Educational Institutions across Telangana and Andhra Pradesh. The goal of SR University is to create an innovative learning educational ecosystem whose graduates significantly contribute to the growth of Telangana and India. SR plan to transform the educational system through three key differentiators; innovation, creativity and entrepreneurship. The Department of Electrical & Electronics Engineering offers U.G, P.G and PhD programs in Electrical Engineering Discipline. U.G program in Electrical and Electronics Engineering was started in the year 2002. The department is offering P.G program in Power Electronics.

Electrical & Electronics Engineering is a vibrant and fast-moving engineering discipline. This program offers you knowledge with relevance to cutting edge core and latest technological industries that will lead to global job opportunities and multi-area research prospects. This program puts you in the center of expeditiously moving areas of relevance to industries such as electrical, electronics, energy generation-transmission-supply, information technology, communication and electric vehicles.

### Co-ordinators:

<b>Dr. Srinivasan Pradabane</b> Assistant Professor EED, NIT Warangal. Telangana – 506004. 8332969289 spradabane@nitw.ac.in	<b>Dr. A.V.V. Sudhakar</b> Associate Professor, EEE Dept, SR University, Warangal. Telangana – 506371. 9000708123 avv.sudhakar@sru.edu.in
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