

Faculty Development Program (FDP)

On



Real Time Embedded Systems and IoT, Its Applications

30th April to 5th May - 2018

Jointly Organized by
Electronics & ICT Academy and

Department of Electronics and Communication and Engineering
DRK College of Engineering & Technology



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, Pondicherry and Andaman & Nicobar Islands. This academy 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 Workshop:

The "Embedded Systems" and "Internet of Things (IoT)" is becoming an increasingly growing topic of conversation both in the workplace and outside of it. There are so many complexities around the "Internet of Things" which we are going to discuss the "Things" in the session of Internet of Things.

The course focus on Raspberry Pi 3 upgrades, which is a next generation Quodcore Broadcom BCM 2837, 64-bit ARMv8 processor with Wi-Fi chip built in to Raspberry Pi. The course also focuses on Python Scripting Language and Basic Linux commands with applications of Embedded Systems and IoT.

Major Course Contents:

- Overview of Embedded systems in practical world
- Introduction to Sensors and Actuators
- Arduino and its Programming
- Interfacing sensors and actuators to Arduino
- Introduction to Internet of Things (IoT)
- Wireless communication technologies and protocols for IoT
- Implementing IoT with Arduino
- Introduction to Raspberry PI
- Programming RaspberryPi with Python
- Implementing IoT with RaspberryPi.

Resource Persons: The program will be conducted by the faculty members of NIT Warangal. Academicians in the concerned field from IITs/NITs are invited to deliver lectures in the program. Speakers from industries are also expected as part of the course.

Eligibility: The program is open to the teachers of engineering colleges from Electronics and communication Engineering, Electrical Engineering, and other allied disciplines in Telangana, Andhra Pradesh, Karnataka States and Pudicherry, Andaman & Nicobar islands and Lakshadweep UTs. Industry personnel working in the concerned/allied discipline can also attend.

Pre-Requisites: Basics knowledge of digital signal processing

Venue: Seminar Hall, DRKCET, Hyderabad.

How to apply:

A filled in form of application in the prescribed format duly signed and sponsored by appropriate authorities (along with demand draft) should reach the coordinator by speed-post. It is also mandatory to send scanned application form and demand draft through e-mail to drkcetecen5@gmail.com as selection will be intimated only through mail.

Registration Fee Particulars:

Faculty & Research Scholars from Telangana, Andhra Pradesh, Karnataka, Goa, Pondicherry and Andaman & Nicobar Islands	Rs. 2500/- Only
SC/ST Faculty members from Telangana, Andhra Pradesh, Karnataka, Goa, Pondicherry and Andaman & Nicobar Islands	Rs. 1250/- Only
Industry participants	Rs. 7500/- Only
Participants from other States	Rs. 8500/- Only

*SC/ST participants should submit the copy of their certificate to claim the concession along with application form and it is only for faculty of mentioned states.

Research Scholars are not eligible for SC/ST concession.

The entire registration fee is to be collected in the form of DDs/ online transfer using the following details:

DD Details	Online Transfer Details
Demand Draft in favor of "Director, NIT Warangal" Payable at any bank in Warangal.	Account Name: Electronics & ICT Academy NITW Account No: 62423775910 IFSC code: SBIN0020149

Selection Criteria:

Selection will be done based on *first-cum-first-serve basis* and the confirmed candidates will be notified immediately. The maximum number of participants will be **50 (fifty)**. Additionally 10 participants from industry are allowed to participate. The list of selected participants will be notified in the institute web site www.drkcet.edu.in and also will be sent to their personal e-mail ids. In case a candidate is not selected, the demand draft will be sent back. A test will be conducted at the end of the course. Candidates will be issued certificates on successful completion of the course along with grade. Reservations are followed for selecting candidates as per GOI norms.

Important dates:

Last date for submission of application: 10.04.2018

Selection-list intimation/display before: 12.04.2018

About NITW & DRK:

National Institute of Technology (formerly Regional Engineering College), Warangal is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier Institution imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering and M.Tech. and Ph.D. programs in various specializations. All B.Tech and M.Tech programmes of NIT Warangal are NBA accredited.

About DRK

The era of success of **DRK College** has started in 2006. Affiliation to Jawaharlal Nehru Technological University (JNTUH), Hyderabad was established with the permission of The All India Council for Technical Education (AICTE), New Delhi and Government of Telangana. Over these years DRK has added more feathers to its success story by including several courses of demand to its curriculum. The vision of the college is to impart quality technical education to mold students to be globally competitive technocrats, with an insight for exploration.

FORMAT OF APPLICATION

Electronics and ICT Academy Faculty Development Programme

On

Real Time Embedded Systems and IoT, Its Applications

30th April to 5th May- 2018

1. Name:

SPONSORSHIP CERTIFICATE

2. Designation:

3. Institution:

Dr/Mr/Ms.....
is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on **Real Time Embedded Systems and IoT, Its Applications**. Sponsored by **Electronics & ICT Academy** during **30th April to 5th May – 2018** at DRKCET, Hyderabad.

4. Email:

5. DD No:

Bank:

Date:

6. Address for Correspondence

Place:

Date:

7. Educational Qualifications with specialization:

8. Subjects taught so far:

Signature of Head of Institution

(With seal)

9. No. of refresher courses/workshops attended:

10. Experience (in years)

Teaching:

Research:

Industry:

11. Accommodation required: YES / NO

12. Do you belong to SC/ST: YES/NO

Address for correspondence

Mail the scanned copies of filled-in and duly signed application form with DD to

jrk.nitw@nitw.ac.in, drkceteceu5@gmail.com

For more information visit: <http://nitw.ac.in/eict/>

<http://www.drkcet.edu.in>

(If yes, please submit a copy of caste certificate to claim the concession)

For any enquiry contact:

Mobile: 08332969363

Land line: 0870-2462444

Declaration

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the Coordinator in case, I am unable to attend the course.

Date:

Signature of the applicant

Coordinators

Dr. J. Ravi Kumar

Department of ECE,

NATIONAL INSTITUTE OF TECHNOLOGY

WARANGAL – 506 004 (Telangana State)

Dr.N. Ramesh babu

Department of ECE,

DRK College of Engineering & Technology

Hyderabad -500043.