



FACULTY DEVELOPMENT PROGRAMME (FDP) ON Recent Trends in Wireless Communication Technologies

(5th –14th August 2021)

(Virtual Mode)

Organized by

E & ICT Academy, NIT Warangal

in Association With

DEPARTMENT OF ECE

**K. Ramakrishnan College of Engineering
(Autonomous), Tiruchirappalli, Tamilnadu**

(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 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:

The fifth generation (5G) wireless connectivity is expected to offer high speed, enriched capacity, lower latency, ultra-high reliability and the ability to connect massive number of connections, namely, Internet of Things (IoT), Machine to Machine (M2M) and Device to Device (D2D) devices. In addition to offering faster speeds and other consumer benefits, 5G is seen as crucial to advanced technologies like vehicle type applications, IoT and virtual reality and augmented reality that demand high speed and bandwidth. In addition, the industry has made plans for next generation of technology, sixth generation (6G) at frequencies from 100 GHz to 1 THz and offer speeds up to 100 Gbps with very low latency. According to the researchers, 5G/6G devices will be able to handle hundreds or even thousands of simultaneous connections that should offer more capacity with lower power requirements.

Major Course Contents:

- Channel Models for Wireless Communication
- Diversity & Combining Techniques, Performance Trade-off
- 5G/6G Wireless Communication Systems and Research Challenges
- Transmission Technologies for 5G and B5G Wireless Communications
- Evolution of Cellular Wireless Communication Standards 1G – 5G
- Device-to-Device (D2D) Communications
- Spectrum Sensing and Cognitive Radio
- Resource Allocation for Wireless Communications
- Estimation Techniques for Wireless Receiver Design
- Machine Learning Application for 5Gmm wave Networks

Faculty conducting this programme:

The programme will be conducted by the faculty members from NIT Warangal. Academicians from IITs are invited to deliver lectures in the programme. Experts from Industries will also be invited to deliver lectures in this workshop.

Eligibility:

The program is open to the Faculty of Engineering Colleges and other allied disciplines in India. Industry personnel working in the concerned discipline can also attend.

Registration Fee Particulars:

| | |
|--------------------------------------|------------------|
| Faculty and Research Scholars | Rs.750/- |
| Industry Participants | Rs.2250/- |

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

Add payment reference as: **FDP-RTWCT**

How to apply:

Participants are required to fill the online registration form by clicking on the following link:

<https://forms.gle/mpH9peo9mpnAxGiL7>

Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 60 (sixty). Additionally, 10 participants from industry are allowed to participate. 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.

Important dates:

| | |
|---|---|
| Last date for submission of Application | 30/07/2021 |
| Selection List by E- mail | 02/08/2021 |
| Duration | 05/08/2021 to 14/08/2021 |

About NIT Warangal:

National Institute of Technology, 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 Institute imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering, M.Tech. and Ph.D programmes in various specializations. All B.Tech and M.Tech programmes of NIT Warangal are NBA accredited.

About KRCE:

K. Ramakrishnan College of Engineering (An Autonomous Institution) is well known for its academic and placement excellence, established in the year 2008 at Trichy, Tamil Nadu. Our Institution is accredited with 'A' Grade by NAAC and the departments of MECH, ECE and EEE are accredited by NBA and having Anna University approved Research Centers. Five PG programmes are offered in our college and many research scholars are doing research in our R and D centers. Our ECE Department has received fund from AICTE for establishing Advanced VLSI Technology lab and for conducting two weeks FDP.



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SPONSORSHIP CERTIFICATE

1. Name:

2. Designation :

3. Institution :

4. Email :

5. Reference No: Bank: Date:

Amount:

6. Address for Correspondence:

Dr. /Mr. /Ms. is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on “Recent Trends in Wireless Communication Technologies”, sponsored by Electronics & ICT Academy during 5th –14th August 2021.

Signature of Head of Institution
(with seal)

7. Educational Qualification:

8. Subjects taught so far:

9. No. of refresher courses/workshops attended:

10. Experience (in years):

Teaching: Research: Industry:

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

Interested faculty members, please fill the following

Google form:

<https://forms.gle/mpH9peo9mpnAxGiL7>

Coordinators:

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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.

Signature of the Applicant