

**A Two Week AICTE Sponsored
Faculty Development Program**

on

Hands on Approach of OFDM system designing in MATLAB

(27th November to 8th December, 2017)

Registration Form

Name: _____

Designation: _____

Organization: _____

Correspondence Address: _____

_____ PIN code _____

Phone # _____

E-mail: _____

Accommodation Required: Yes/No

Category: Academic/Industry/others

Signature of the Participant:

Date: _____

Place: _____

Signature of the Head of the Institute/
Sponsoring Authority
(With Date and Seal)

ELIGIBILITY & REGISTRATION: No registration fee

The Faculty members/Research scholars of AICTE approved Engineering colleges/Polytechnics and Professionals from Industry working in the field of wireless communications are eligible to apply for the course. Admissions will be offered subject to the availability based on first-come first-serve and area of specialization. **Soft copies of the filled-in registration forms duly forwarded by Head of the Institution with seal can be E-mailed to narsimhabadri@gmail.com**

Last date of receiving applications: 20th Nov 2017.

Intimation of acceptance: 23rd Nov 2017

Selected candidates have to bring the original filled-in registration form on 27th November, 2017

TA will be reimbursed to outstation participants as per rules. Participants will receive study material & a textbook.

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Coordinator

Prof. K. Ashoka Reddy

Dept. of ECE

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Organized by

Department of Electronics & Communication Engineering

Kakatiya Institute of Technology & Science, Warangal

(An Autonomous Institute under Kakatiya University)

Opp: Yerragattu Gutta, Hasanparthy (M),

Warangal-506015 (TS), INDIA.

Tel (0870) 2564888, Fax: (0870) 2564320

Website: www.kitsw.ac.in

ABOUT THE INSTITUTE

Kakatiya Institute of Technology & Science, Warangal popularly known as **KITSW**, was established in 1980. KITSW is the flag ship institute sponsored by **Ekasila Education Society (EES), Warangal** a philanthropic society, whose primary objective is to establish and manage a variety of educational institutions with highest quality and thus to provide quality human resources in the service of society. The institute is autonomous under Kakatiya University, Warangal and recognized by AICTE & UGC New Delhi.

The institute has its own campus covering an area of 67 acres of land. It is offering undergraduate programs in seven branches of engineering and post graduate programs in seven socializations. All B.Tech programmes of the Institute are accredited by NBA and the institute has conducted several seminars, symposia, workshops, conferences in the past.

Warangal city is located on New Delhi - Chennai broad gauge railway line and is well connected to other cities by rail and road. It is just 150 kms from Hyderabad, the capital city of Telangana. The institute is located 13 kms and 20 kms from Kazipet and Warangal railway stations respectively, on Warangal - Karimnagar highway.

ABOUT ECE DEPARTMENT

The **Department of Electronics and Communication Engineering** was established in 2000 with an intake of 45 students and subsequently it increased to 60, then 90 and then to 120, presently the intake is 180. The department was accredited by NBA in the year 2008 and reaccredited in 2014 by NBA, New Delhi under Tier II. M.Tech Course in Digital Communications was started in 2004 in association with E & I Engineering department with an intake of 18 students which was later enhanced to 25, presently it is under the department of ECE.

The department has 34 dedicated and Qualified faculty with Two Professors, 5 Associate Professors, 27 Assistant Professors, out of which 6 faculty members are having Ph.D. and 11 faculty members are pursuing Ph.D. The students of the department are trained in soft skills by conducting various programs in the students Association, **Electronics and Communication Engineering Association (ECEA)** every week.

The department has modernized and well equipped laboratories with state of-art facilities to cater to the needs of UG and PG courses.

The list of labs available in the department is:

- Analog Communication Laboratory
- Analog & Digital Simulation Laboratory
- Digital Communication Laboratory
- Microprocessor & Microcontroller Laboratory
- Microwave & Optical Fiber Comm. Laboratory
- Pulse & Digital Circuits Laboratory
- Signal Processing Laboratory
- Integrated Circuits Laboratory
- Digital Electronics Laboratory

ABOUT WARANGAL CITY

The historical city of Warangal recognized as one of the best heritage cities of India and it is an important educational cluster. Once the capital of great Kakatiya Kingdom, Warangal, earlier known as Orugallu or Ekashila Nagaram still retains its importance as a cultural center. There are many historical places in and around the city such as Fort Warangal, Thousand Pillar Temple, Badhrakali Temple, Ramappa temple along with beautiful scenic lakes of Ramappa, Pakala and Laknavaram. In addition to this there are wild life sanctuaries nearby and other places for the tourists.

ABOUT THE FDP

Orthogonal Frequency Division Multiplexing (OFDM) is an efficient multicarrier modulation technique for transmitting the data at a higher speed. Due to this, the OFDM spread into wide variety communication fields such as digital television and audio broadcasting, DSL Internet access, wireless networks, power line networks, and 4G mobile communications. With the scope of wide variety of developments for designing an efficient OFDM technique, many research papers have been published every year. Different ways of implementations of a basic model, fast evolution, and complexity making the beginners to enable to follow the concepts of OFDM.

The objectives of this faculty development program are to:

- impart the knowledge on the complete OFDM communication system and its simulation
- introduce challenges in OFDM which include channel estimation and Peak to Average Power Ratio (PAPR) reduction
- simulate OFDM system and solve OFDM related problems using MATLAB

The UG and PG programmes of Electronics and communication engineering offer various advanced courses in the field of communication. OFDM is very potential area of study where students can be guided to take up projects both at UG and PG level. Hence hands-on training to the Electronics faculty of engineering colleges will make them competent to guide students on good projects/dissertations.

BENEFITS TO THE FACULTY

- Faculty will get trained in the area of OFDM
- Faculty will start guiding meaningful projects to UG and PG students
- Faculty will be introduced to OFDM research

FDP COURSE CONTENTS

- Hands on usage of Signal processing and communication system toolboxes of MATLAB
- Implementation of BPSK, QPSK and QAM systems
- Channel modelling and BER analysis
- Design of a OFDM System
- OFDM based Project
- Hands on Lab sessions

Resource Persons

Prof. Aditya K Jangannatham, IIT Kanpur

Prof. NVSN Sarma, NIT Warangal

Dr. T. Kishore Kumar, NIT Warangal

Dr. S. Anuradha, NIT Warangal

Dr. V. Venkata Mani, NIT Warangal

Dr. Sachin Chaudhari, IIIT Hyderabad

Dr. Ubedullah, IIIT Hyderabad

Prof. T. Srinivasulu, Dean, FoE&T, Kakatiya University(KU)

Dr. K. Bikshalu, Chairperson, BoS in ECE, KU

Sri E. Harikrishna, Asst. Professor, UCE, KU

Prof. K. Ashoka Reddy, KITS Warangal

Dr. M.Raju, KITS Warangal

Sri B. Narsimha, KITS Warangal

Sri J. Prem kumar, Senior Application engineer, Capricot

ACCOMMODATION:

Accommodation will be provided for outstation participants on first-come first-serve basis.

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