

ABOUT KITS, GUNTUR

KKR & KSR Institute of Technology & Sciences popularly known as KITS has set for itself the mission to churn out professional deft, academically-bright and socially responsible individuals to contribute its wee bit to the knowledge society. The college" is situated in a spacious 11 acres of land in- an idyllic rural setting. Despite being a college with 15 years of academic standing, the college is making rapid strides in establishing good practices in teaching-learning processes. It's a pleasure to disclose the achievements made by the students of KITS in all spheres, of participation at the university level. It's proud moment for our institution and students who have topped the university in various faculties of Engineering The college has good infrastructure and is making concrete efforts in building an industry-institute beneficial corridor through addressing both the potential resources of the region and also meeting the transnational technical requirements. Though main impetus of our college is technology it also supports and encourages students to involve in various social service activities like Blood Donation, Donations to orphanages, old age homes, and poor feeding. College has NAAC accreditation of "A" Grade for 5 years, NBA accreditation for 3 years and permanent affiliation of JNTUK Kakinada. College got autonomous state in the year 2020

ABOUT THE ECE DEPARTMENT:

The Department of Electronics and Communication Engineering accredited by NBA. The department recognized as one of the research centre by JNTUK. The department has grown manifold and has become one of the important departments in the college. The department offers a four year B. Tech degree programme. The department maintains a close liaison with industries and ensures that students are trained as per the current needs of the society. The curriculum provides in depth knowledge of both hardware and software skills. The department is full- fledged with adequate infrastructure.

CHIEF PATRONS

Sri. K. Subba Rao, Chairman,
KKR & KSR Institute of Technology & Sciences.

Sri. K. Sekhar, Secretary,
KKR & KSR Institute of Technology & Sciences.

PATRONS

Dr. P. Babu, Principal,
KKR & KSR Institute of Technology & Sciences.

Dr. K. Hari Babu, Director (Academics)
KKR & KSR Institute of Technology & Sciences.

CONVENER

Dr. N. Adi Narayana, Professor & Head
Dept. of Electronics & Communication Engineering,
KITS

FDP COORDINATOR

Dr. SARALA PACTHALA,
Associate Professor of ECE.

FDP CO-Coordinator

Sowjanya Kesana,
Assistant Professor, ECE.

CONTACT PERSON

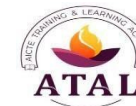
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KKR & KSR INSTITUTE OF TECHNOLOGY AND SCIENCES

Guntur, Andhra Pradesh

(Autonomous)



Announces

**A Six Days Faculty Development
Program**

On

**Wireless Sensor Network
based Agriculture system
using Machine Learning**

(11th - 16th November, 2024)



Organized by

Department of Electronics & Communication
Engineering
(NAAC, AUTONOMOUS, NBA Accredited
Department)

KKR & KSR institute of technology & Sciences
Vinjanampadu, Guntur, Andhra Pradesh-522017
India

ABOUT FACUTY DEVELOPMENT PROGRAM

OBJECTIVES OF THE FDP:

- Primary objective of this program is to acquire knowledge on recent trends in WSN.
- The main objective of FDP is to facilitate Faculty members, Research scholars and Industry persons from different regions of the country to gain knowledge from Experts on the recent developments in the domain of WSN using Machine Learning.
- FDP is intended to offer learning on basics, emerging trends & challenges in the field of Internet of Things using Machine Learning
- FDP is proposed to focus on improvement of participants' ability in carrying out research, testing & consultancy in the WSN, Internet of things as well as other related domains.
- The objective for organizing FDP is to provide knowledge on WSN and Internet of things in application oriented for Agriculture.
- The **Wireless Sensor Network (WSN)**-based farming solutions need to be of very low cost to be affordable by end users using machine learning.
- Physical phenomena such as temperature, humidity, and rainfall over an agricultural region can be monitored by a WSN.
- WSNs for environmental condition monitoring with information of soil nutrients is a promising approach for **predicting crop health** and production quality over time.
- Monitoring the soil moisture and weather conditions enables irrigation scheduling.
- Agricultural based involving huge number of sensor nodes, spread all over the agrarian area, and generating large volumes of data requires cloud-framework and edge-level computation.

COURSE CONTENTS

The following topics will be covered in the FDP. There will be theory as well as hands on/ simulation classes.

- Recent trends in wireless sensor used for the agriculture system using machine learning
- Challenges in the design of wireless sensor network.

- Fundamentals of WSN using ML
- Wireless sensor applications using machine learning
- WSN Applications with ML
- Research trends in WSN for agriculture system
- Agriculture WSN using machine learning
- Hands on training on WSN and ML.

OUTCOMES OF THE FDP:

- After completion of the, the members ought to be capable to implement their ideas on wireless sensors and internet of things for the agriculture system.
- They will get knowledge on the IoT concepts incorporated on the agriculture system with the wireless sensor node
- Finally, this program will provide engineering ideas and acquire experience with industry technologies.

SPEAKERS

Dr. Tharun Kumar Reddy Bollu

Assistant Professor, Dept. of ECE,
Indian Institute of Technology, Roorkee.

Dr. T. Kishore Kumar

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Dr. J. Ravi Kumar,

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Dr. I. Earnest Paul,

Department of ECE, NITW
National Institute of Technology, Warangal.

Dr. B.T. Krishna

Professor, Department of ECE,
University college of Engineering, Kakinada,
JNTUK, A.P.

Dr. Geeta Bhimrao Atkar, Assistant Professor,
Dept. of CSE, G H Raison college of
Engineering and Management, Pune,
Maharashtra.

REGISTRATION:

There is No Registration Fee. To join this **offline FDP**, you are requested to register your name by signing up the below link: <https://www.aicte-india.org/atal>

IMPORTANT DATES

Last date of Registration (Online) 8th November, 2024

GENERAL INFORMATION

Other Important Information for participants:

- This FDP is only for faculty & research scholars (Ph.D & PG) of AICTE approved technical institutions.
- Seats are limited participants are selected by organizers on the basis of first come first serve.
- On completion of the course and assessment the certificates will be awarded to successful participants by respective ATAL Academy.

AICTE –Teaching and Learning(ATAL) Academy

The main objectives of the ATALAcademy are

- To plan and help in imparting quality technical education in the country a
- To support technical institutions in fostering research, innovation and entrepreneurship through training in various emerging areas.
- To stress upon empowering technical teachers and technician using information & communication technology
- To utilize platform and deliver of trainings
- To provide a variety of opportunities for training and exchange of experiences Such as workshops, Orientations, learning communities, peer mentoring and other facultydevelopment programmes.
- To support policy makers for incorporating training as per requirements

Organized by



DEPARTMENT OF ELECTRONICS AND
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www.kitsguntur.ac.in