

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE Warangal - 506 015, Telangana, INDIA (An AUTONOMOUSINSTITUTE under Kakatiya University, Warangal)

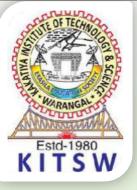
కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, మందల్ – 4ం६०१५

Department of Electronics and Communications

HEARTY WELCOME TO NAAC PEER TEAM

Research & Education Centre

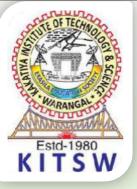
EMBEDDED SYSTEMS & IOT LAB



Objective of the Research and Education Center

The main Objective of the research and Education centre at Electronics and Communication Engineering is to carry out

- A broad coverage of challenges and research issues to the design and management of automation.
- The students are exposed to advanced Projects such as IOT protocols, embedded system design, computing, kernel programming, software defined radio and many more.



About the Research and Education Center

- Our research at Electronics and Communication Engineering discipline brings together the academic and industrial talents from across a range of extents that includes Communication, Signal Processing, VLSI and Embedded Systems.
- Our culture of innovation, strong industrial collaboration and outstanding facilities will help you achieve your research ambitions. Our research focus upon the application-based areas that solve the problems of local, national and global importance. The research is carried out under the research and Education that has state-of-art facilities.
 - This Centre plays a vital role in developing the Mini, Major projects for PG and UG students.

Faculty Incharge





Dr. J. Tarun Kumar Associate Professor

Lab Photo



Primary functions of the center

- Qualified and experienced academia from top national and international institutes having strong research acumen
- Research staff with experience in real time industrial applications
- State-of-art and fully equipped laboratories
- Highly advanced industrial graded computing facilities with latest simulation software
- National and International research collaborations with reputed Universities
- Mentoring from reputed industry researchers



Major equipment

HARD WARE

High end Personal Computers (30)	FPGA Board VLSI Training unit
TMS320C6748 LCDK with XDS100 Emulator	Xilinx Vivado Design Suite
CCD CMOS CAMERA (NTSC/PAL)	Spartan 6 Atlys Boards
DSP EVM BoardAM5728Multicore	
Processor Board&Camera Module for	ARM-KIT:ARM Cortex A8
AM5728 Board	
ARM 7 LPC2148 Basic Trainer kit with On-	BeagleBone Development Board with
board Peripherals	21-Add-On-Boards
EasyMXProV7-STM-32 Board:	
STM-32 M4 Development Board with	ZigBee-Module:ARM Compatible
Accessories.	ZigBee Interface Module with Antenna.



Major software

MATLAB 23.2 (R2023b)

Code Composer Studio 2.0

NI Multisim Educational Software

NI LAB VIEW SOFTWARE

Tanner Tools version 12.0

VLSI Design suite a bundle of 5 users

Xilinx Vivado Design Suite

Or Cad University Simulation Bundle

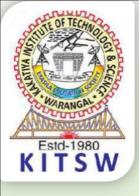
Cadence Software

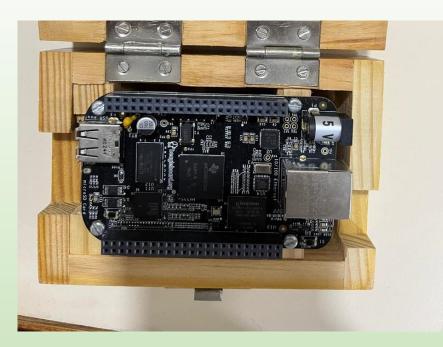


Projects To be Carried out

V Types of projects / research carried out with description:

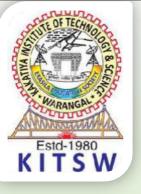
- PG Dissertation work Embeeded, IOT and any Smart System.
- UG Major Projects IoT, Smart Systems and automation
- Faculty Research Publication preparation with implementation results











THANK YOU