ISO 9001:2015 AICTE-CII: GOLD Category Institute NAAC-'A' Grade Institute (CGPA: 3.21)
KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE
Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506015, TELANGANA, INDIA
काकतीय प्रौद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६०१५, तेलंगाना, भारत
కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - ౫౦౬౦౧౫, తెలంగాణ, భారతదేశము
(An Autonomous Institute under Kakatiya University, Warangal)
(Approved by AICTE, New Delhi; Recognised by UGC under 2(f) & 12(B); Sponsored by EKASILA EDUCATION SOCIETY)
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Department of Electronics and Communications

Research & Education Center

EMBEDDED SYSTEMS & IOT LAB

About the 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 playa a vital role in developing the Mini, Major projects for PG and UG students.

The 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

Research facilities available:

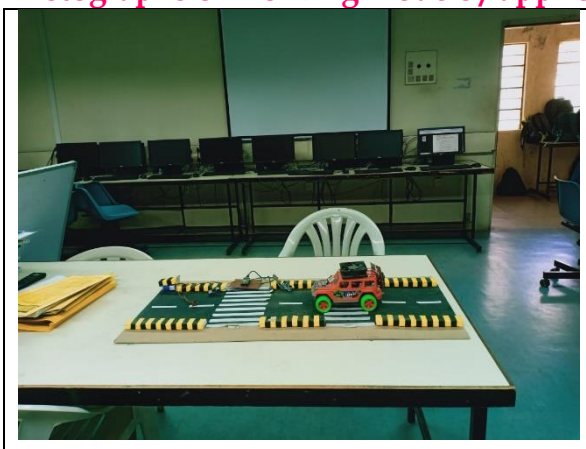
Major Hardware Equipment
Personal Computers (30)
TMS320C6748 LCDK with XDS100 Emulaor
CCD CMOS CAMERA (NTSC/PAL)
DSP EVM Board AM5728 Multicore Processor Board & Camera Module for AM5728 Board
ARM 7 LPC2148 Basic Trainer kit with On-board Peripherals
ARM-KIT:ARM Cortex A8
BeagleBone Development Board with 21-Add-On-Boards
EasyMXProV7-STM-32 Board:
STM-32 M4 Development Board with Accessories.
ZigBee-Module:ARM Compatible ZigBee Interface Module with Antenna.
Rasberry Pi 4 model B

Softwares
MATLAB 7.14 (R2012a)
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
OrCad University Simulation Bundle
Cadence Software

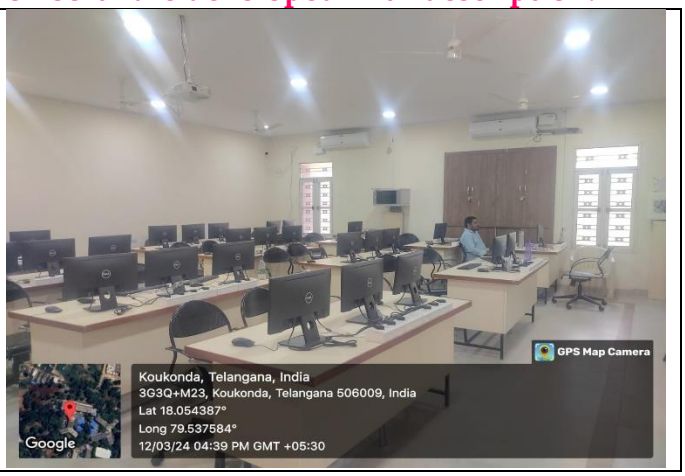
Types of projects / research carried out with description:

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

Photographs of working models / application software developed with description:



Embedded Systems Working Model



Computer Lab facility in Research & Education Center

Details of Faculty incharge for Research and Education Center :
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