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KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE
KCE

Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506015, TELANGANA, INDIA

काकतीय प्रौद्योगिकी एवं विज्ञान संस्थान, वरंगल – ५०६०१५, तेलंगाना, भारत

కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ – ౫౦౬ ౦౧౫ తెలంగాణ, భారతదేశము

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Department of Electronics & Instrumentation Engineering

Department Research & Education Centre(DREC)

Industrial IoT

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About DREC:

Industrial internet of things (IIoT) Research & Education Centre focused on activities related to interconnected sensors, instruments & networked devices together with computers'. This connectivity allows for data collection, exchange, and analysis, potentially facilitating improvements in productivity, efficiency & economic benefits. The integration of IIoT, Distributed Control System (DCS) & Cloud Computing achieves a higher degree of automation, refine and optimization in the field of process control.

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Key aspects of DREC - IIoT:

- **Knowledge Dissemination & Outreach**

- **Education & Training**

- **Prototype Development & Testing**

- **Research & Development**

- **Incubation and Innovation Hub**

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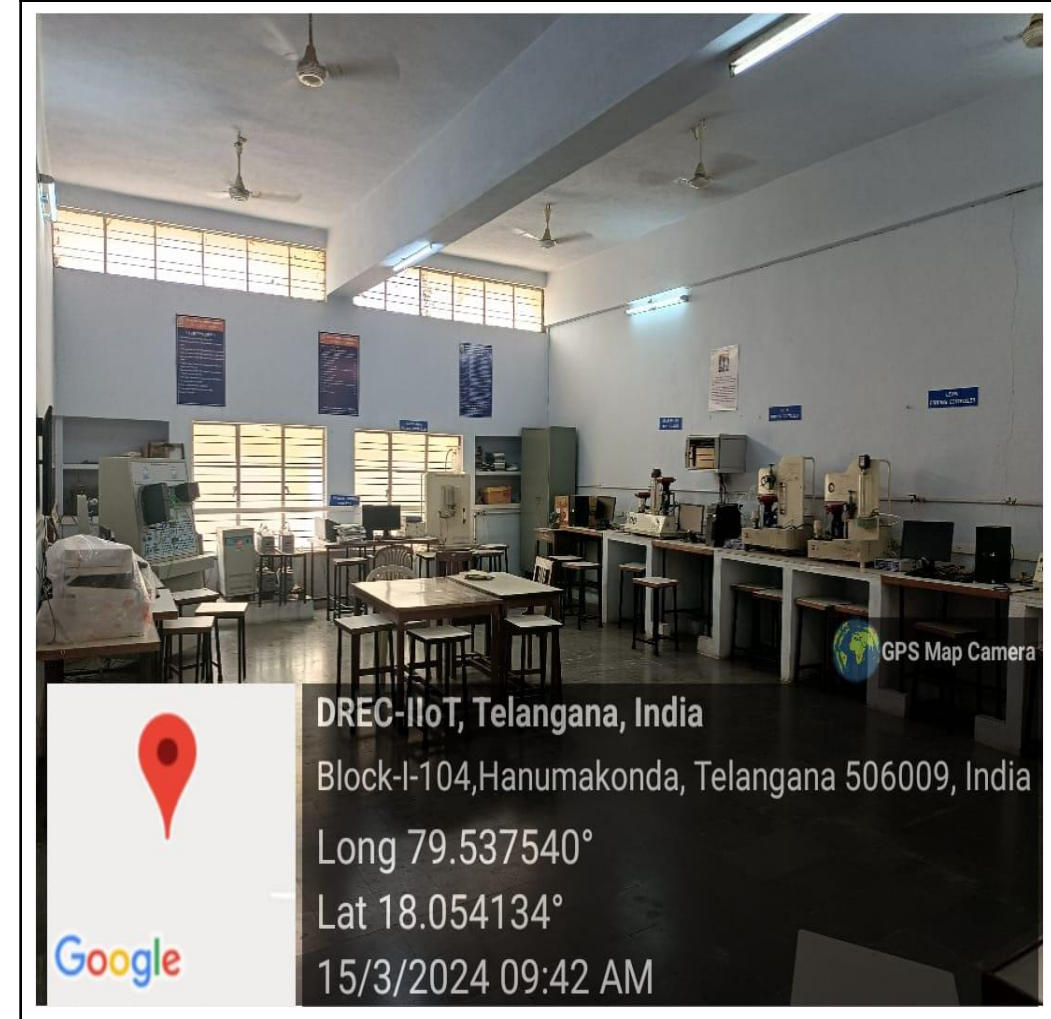
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Major Equipment & Software

S. No.	Equipment Name	Cost
1.	Raspberry Pi4 & Arduino Boards	1,04,000.00
2.	Siemens as410 Smart Controller based DCS Trainer, DCS Software (PCS7-v9.0)	14,99,950.00
3.	Programmable Logic controller with Real time application trainer	75,000.00
4.	Desktop Systems	3,12,200.00
5.	NI LabVIEW-2018	17,70,000.00
6.	MATLAB R2023b	48,653.00

DREC-IIoT, Telangana, India
Block-I-104,Hanumakonda, Telangana 506009, India
Long 79.537540°
Lat 18.054134°
15/3/2024 09:42 AM

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Projects / Research carried out in DREC - IIoT	
S. No.	**Name of the Project / Research carried out in the DREC**
1.	**PG Student Project on** IoT based Smart waste management system
2.	**UG Student Project on** IoT based Healthcare monitoring system
3.	**UG Student Project on** IoT based Smart farming system
4.	**UG Student Project on** A novel IoT-based Home Automation System

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Projects / Research carried out in DREC - IIoT

UG Student Research Paper on A novel IoT-based smart parking (SP) solution