

**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 - ५०६ ०१५ 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)

website: www.kitsw.ac.inE-mail: principal@kitsw.ac.in

☎ : +91 9392055211, +91 7382564888

Department of Electronics Communication and 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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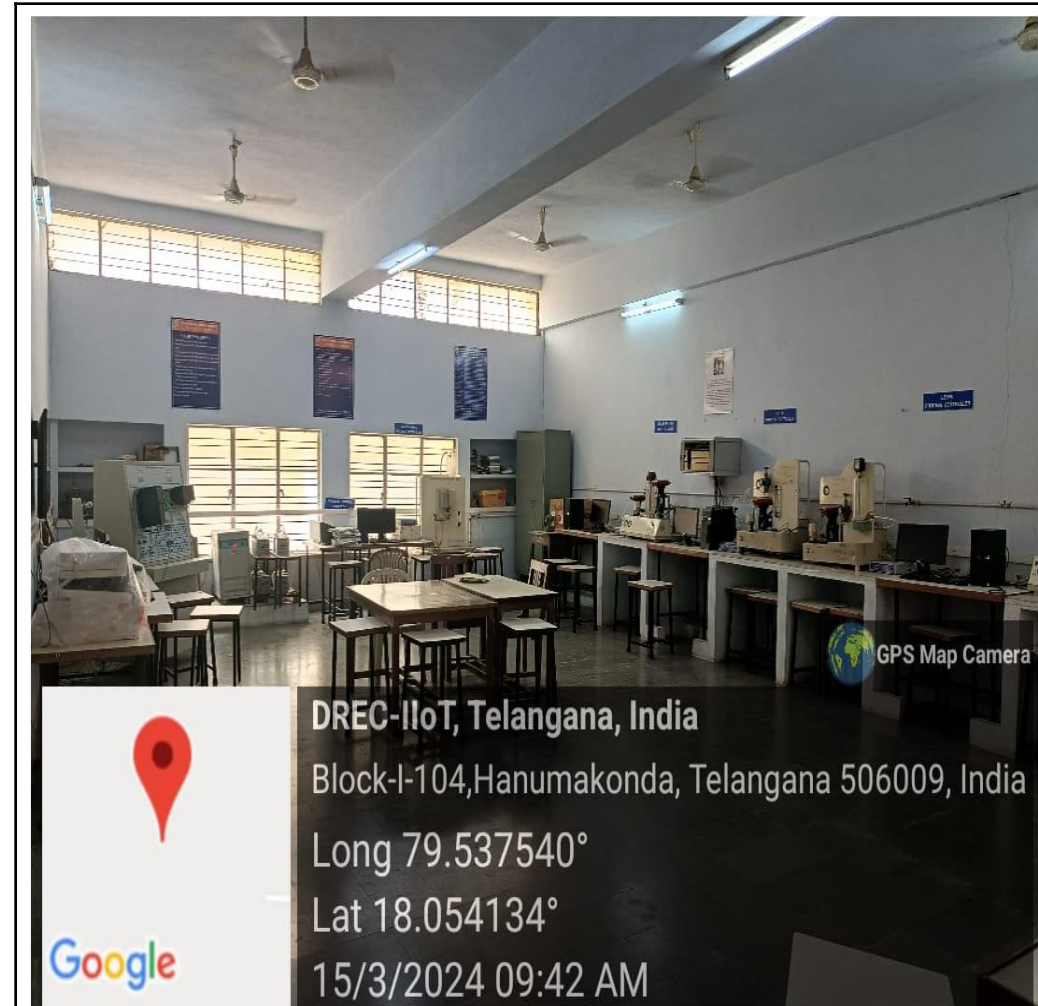
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Major Equipment & Software

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





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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

