

**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 - ౫౦౬ ౦౧౫ తెలంగాణ, భారతదేశము

(An Autonomous Institute under Kakatiya University, Warangal)

(Approved by AICTE, New Delhi; Recognised by UGC under 2(f) &amp; 12(B); Sponsored by EKASILA EDUCATION SOCIETY)

website: [www.kitsw.ac.in](http://www.kitsw.ac.in)E-mail: [principal@kitsw.ac.in](mailto:principal@kitsw.ac.in)

☎ : +91 9392055211, +91 7382564888

## Department of Electronics & Instrumentation Engineering

# Department Centre of Excellence (CoE)

# NI LabVIEW Academy

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## About CoE:

A "LabVIEW Center of Excellence" typically refers to a specialized facility, group, or program dedicated to the advancement, promotion, and support of LabVIEW, a system design platform and development environment created by National Instruments. LabVIEW is commonly used for data acquisition, instrument control, and industrial automation applications.



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## Functions of CoE:

- Training and Education
- Research Collaboration
- Technology Transfer
- Community Engagement
- Resource Sharing
- Innovation and R&D





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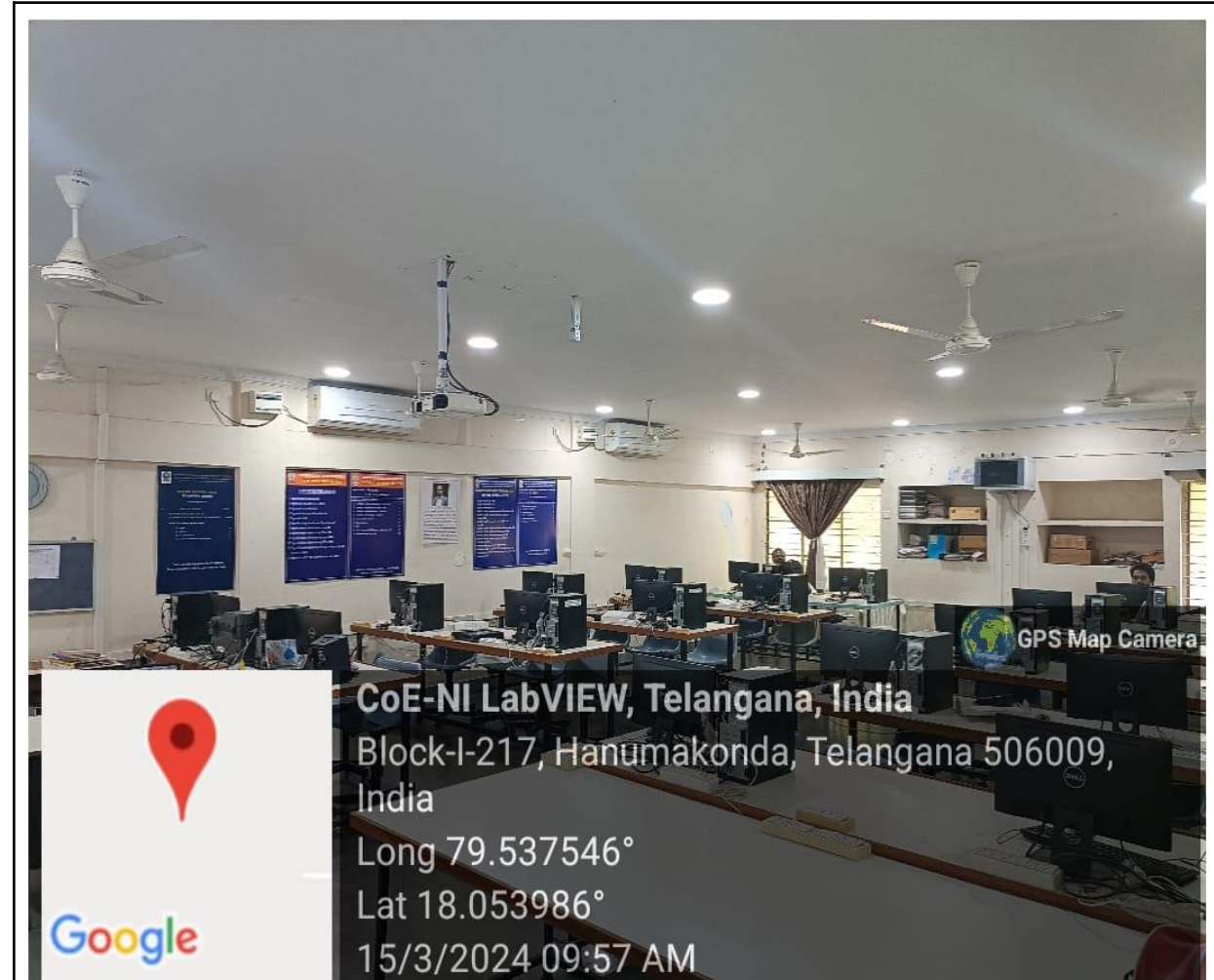
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## Major Equipment & Software

S. No.	Equipment Name	Cost
1.	NI myRIO	17,70,000.00
2.	NI myDAQ	
3.	Sensor and motor kits	
4.	NI LabVIEW-2018	
5.	MATLAB R2023b	48,653.00
6.	Python & Dev-C++	





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## Projects / Research carried out in CoE – NI LabVIEW

**S. No. Name of the Project / Research carried out in the DREC**

1. **UG Student Project on** Density based traffic control system using NI LabVIEW
2. **UG Student Project on** Lab VIEW based wireless transmission of Alarm signals from baby incubators to Neonatal Nursing Station
3. **UG Student Project on** Soldier Tracking and health monitoring system using Lab VIEW
4. **PG Student Project on**





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## Projects / Research carried out in CoE – NI LabVIEW

UG Student Research Paper on  
Smart controllers in agriculture for  
Improved Productivity using  
LabVIEW

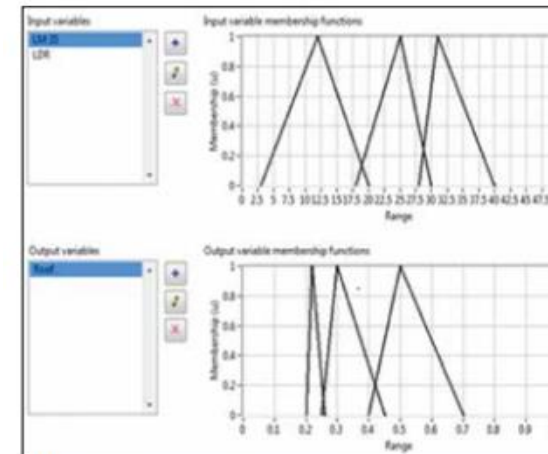


Figure 6. Fuzzy membership functions for rice

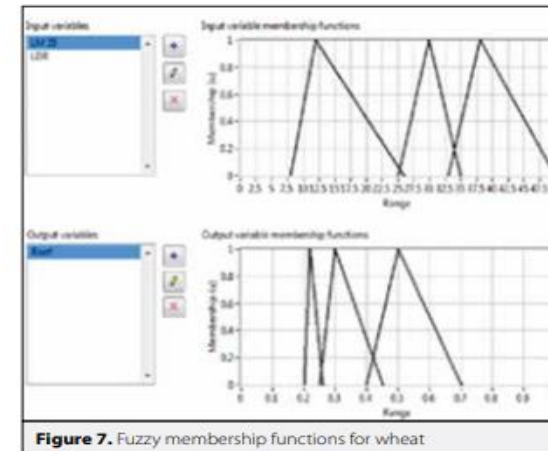


Figure 7. Fuzzy membership functions for wheat



Figure 8. Front panel view of the proposed system interface

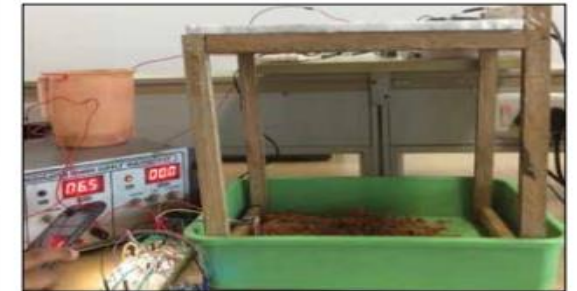


Figure 9. Laboratory setup showing closed roof

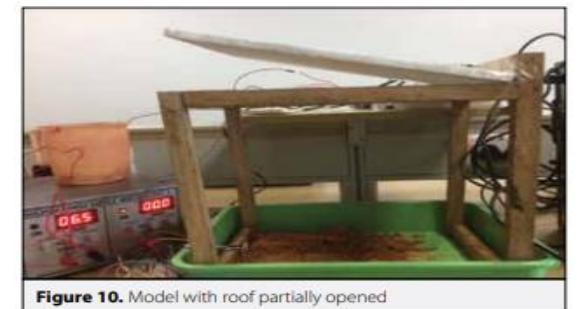


Figure 10. Model with roof partially opened