Prof. K. Ramulu

Professor of Practice

Education Qualifications: B.E, PG Diploma in Management (IGNOU)
Specialization: Instrumentation & Control (Process automation, turbine, boiler, and compressor control systems, PLC/DCS integration)

ADDRESS:
- C – Block -Room No 306

JNTUH ID: 7467-250310-144841

EMAIL:
kramulu_ece@mgit.ac.in

DATE OF JOINING:
03-03-2025

EXPERIENCE - 45 Years
- Teaching - 10
- Research – Industry-led/applied
- Industry -35
- Others –

SUMMARY:
- Publications -
- Conferences -
- Patents –
- Books –
- Honors/Awards - 0

EVENTS:
- Organized -
- Attended -

LET'S MEET ON SOCIAL:

Responsibilities held at Institution Level:

- Conducts hands-on training modules on PLCs and DCS for undergraduate and postgraduate students.
- Provides industry-oriented project guidance and supervision.
- Organizes and coordinates industrial visits and practical exposure to operational plants.

Professional Experience:

- Instrumentation Engineer — Heavy Water Plant, Manuguru - 27 years.
- Head of Instrumentation — Heavy Water Plant, Kota - 6 years.
- Additional Chief Engineer — Heavy Water Board, Mumbai - 2 years.

Core competencies & technical strengths:

- Steam turbine, boiler, and compressor instrumentation, control and commissioning.
- Design, specification and implementation of PLC and DCS-based automation solutions (Siemens, ABB, Schneider Electric, GE Fanuc, Allen-Bradley, HIMA).
- Control valve selection, calibration and maintenance; actuator and positioner troubleshooting.
- Process control strategy, loop tuning, controller tuning & optimization (PID, cascade, feedforward).
- System integration, FAT/SAT, and plant commissioning for distillation units, boilers, turbines, compressors, and water treatment systems.
- Preventive and corrective maintenance practices; field instrumentation diagnostics and reliability improvement.

Research & Project Involvement (industry-focused):

- Instrumentation and control design for Boric Acid Enrichment Plant — instrumentation specification, signal architecture and control strategy.
- Instrumentation package and automation for Elemental Boron Plant — PLC/DCS interfacing and safety interlocks.
- Led commissioning teams for steam turbines, boilers, and compressors — control logic implementation, interlocks, and performance tuning.
- Oversaw multiple DCS and PLC commissioning projects integrating process control with plant ESD and safety systems.

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LET'S MEET ON SOCIAL:

Events and Technical Engagements:

1. GE Fanuc PLC training — Larsen & Toubro (L&T), Mumbai.
2. Conference on Cybersecurity in Instrumentation — BARC, Mumbai.
3. Conducted internal workshop on “Advanced Control Strategies for Process Plants” (Heavy Water Plant, Manuguru, 2016).
4. Organized in-house seminar on “Industrial Safety and Automation Reliability” (Heavy Water Board, 2018).

Awards and Recognitions:

- Group Achievement Award-Department of Atomic Energy, Government of India.
- Appreciation Award for Technical Training Excellence-Heavy Water Plant, Manuguru (2015).
- Certificate of Recognition for Process Optimization Contribution- Heavy Water Board (2019).

Subjects Taught:

- Electronic Devices and Circuits
- Control Systems
- Control Valves and Actuators
- Instrumentation and Measurements
- Controller Tuning and Optimization

Online / Professional Qualifications:

- PG Diploma in Management, IGNOU

Summary:

A technically focused instrumentation and control professional with over three decades of industrial experience and a decade of applied teaching/training experience. Proven record of leading instrumentation departments, commissioning complex turbine, boiler, and compressor control systems, and translating industrial practices into effective, hands-on academic instruction. Currently engaged as Professor of Practice to bridge the industry-academia gap through practical training, project mentorship, and structured plant exposure for engineering students.