

Instrumentation System design Lab

Instrumentation System Design Lab was established in the year 2014. The lab is equipped with PLL, PCB layout design using CAD, and Micro Controller based system design. Design of AC, DC Voltage regulator using SCR, Design of instrumentation amplifiers, process control timer, design of wireless data modem and design of AM & FM modulator and demodulator.

➤ Lab in-charge: Mr.D.Vijayanandh, AP/EIE

Total cost of the laboratory Rs. 4.8 lakhs

List of major equipments:

- Design of Instrumentation amplifier
- Design of active filters
- Regulated power supply and design of V/I and I/V converters
- Design of linearizing circuits and cold – junction compensation circuit for thermocouples
- Control valve sizing
- DSO
- signal conditioning circuit for strain gauge and RTD
- Design of PID controller (using operational amplifier and microprocessor)



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