



MOTHER TERESA

INSTITUTE OF SCIENCE & TECHNOLOGY

Permanently Affiliated to JNTUH, Hyderabad
Recognition under Section 2(f) & 12 (B) of the UGC Act, 1956
AN ISO 9001:2008 CERTIFIED INSTITUTION
SANKETIKA NAGAR, SATHUPALLY – 507303, KHAMMAM Dist., TELANGANA



CONTROL SYSTEMS & SIMULATION LABORATORY:



Lab Description:

This lab provides kits to study Magnetic amplifier, synchro transmitter receiver pair, P, PI, PID Controller, Lag, and Lead Compensator, PLC trainer kits and characteristics of Ac & Dc servo motors.etc. and also provides different software's like MATLAB, PS-PICE, PSCAD and Mi-power to analyze different applications.

Course Objectives:

1. Will have successful technical or professional careers, including supportive and leadership roles on multidisciplinary teams.
2. Will acquire, use and develop skills required for effective professional practices.
3. Will acquire the holistic education necessary to be a responsible member of society.
4. Engage in life-long learning to remain current in their profession and be leaders in our technological society

Course Outcomes:

- a) Ability to apply knowledge of mathematics, science, and engineering.
- b) Ability to design and conduct experiments, as well as to analyze and interpret data.
- c) Ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- d) Ability to function on multi-disciplinary teams.
- e) Ability to identify, formulate and solve engineering problems.
- f) Understanding of professional and ethical responsibility.
- g) Ability to communicate effectively.
- h) Broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- i) Recognition of the need for, and an ability to engage in life-long learning.

j) Knowledge of contemporary issues.

k) Ability to utilize experimental, statistical and computational methods and tools necessary for engineering practice.

l) Graduates will demonstrate an ability to design electrical and electronic circuits, power electronics, power systems, electrical machines analyze and interpret data and also an ability to design digital and analog systems and programming them.