

ELECTRICAL & ELECTRONICS

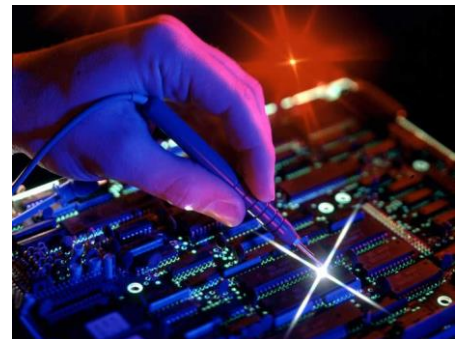
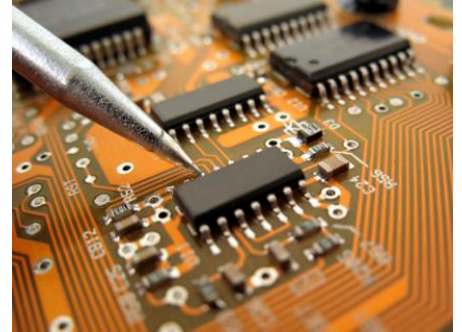
Overview

Electrical & Electronics Engineering incorporates the design and use of electronic components and microprocessors to develop applications in communications, control and computing. Specialized studies will focus on system analysis, communications and digital signal processing.

This program has been devised with the premise of training delegates in the field of Electrical & Electronics Engineering (EEE). The courses provided cover the entire spectrum of the discipline and are taught by leading professors of the nation who have bolstered their academic credentials with practical and industrial expertise.

Upon demand, the training scheme can be devised to incorporate practical/hands-on experience in relevant laboratories of institutions that SAHARA Group has collaborations with. The program is intended for those seeking to develop and further their aptitude with curricular content that is tuned to the standards set forth by the IEEE. Non-Engineer professionals seeking to equip themselves with the basics of the field are offered the alternative of courses that comprise the fundamentals needed to grasp the main scheme and dynamics of the electrical systems that they are in charge of running.

The curriculum is devised to impart delegates with the theories and concepts of the field with special emphasis on real-world examples and case studies that allow trainees to appropriately utilize their know-how when faced with circumstances that require due application.



Learning Objectives

- Learning how voltage, current, and resistance are related by Ohm's Law and apply these principles to the design and function of electronic circuits.
- Using electrical measuring instruments for troubleshooting.
- Working with electronic measurement components such as multi-meters, oscilloscopes, bridge-type instruments, and digital test equipment.
- Explaining the operation of electronic equipment and systems such as servo and control systems, numerical control systems, computers, programmable controllers, and microprocessors used in industry.

COURSE TITLES

- Electrical Circuits Fundamentals
- Electrical Circuits and Wiring Systems
- Electrical Faults and Troubleshooting
- Electrical Motors and Drives
- Power Compensation and Control
- Transmission Lines Design and Installation
- Transformers Applications, Operation and Maintenance
- UPS Systems Applications, Operations and Maintenance
- Circuit Breakers and Switchgears
- Electrical Maintenance Principles and Applications
- SCADA Systems
- Harmonics in Power Systems
- Automation Systems
- Insulators Specifications and Selection
- Industrial Electronics and Applications
- Arch Flash Analysis and Prevention Techniques
- Electrical Grounding, Bonding and Lightning Protection
- Electrical Distribution Systems Design and Installation
- Transmission Lines Protection and Maintenance
- IEEE Standards for Installation and Inspection
- Smart Grid
- Distribution Network Design and Planning
- Combine Cycle Power Plants



Analyse Needs

Attend Course

Evaluate
Learning

Action Plan

Review Progress