

# INSTRUMENTATION & ELECTRONIC COURSES

## DIGITAL ELECTRONICS (IE10A)

**OBJECTIVE:**

This course explain in details most of digital electronic circuits in computer integrated circuits, ALU design, and electronic memories.

**WHO SHOULD ATTEND?**

This course is recommended for Engineers, Supervisors, Foremen, technicians and who are involved in electronic circuits

**COURSE CONTENT:**

- Digital Gates
- Digital Integrated Circuits
- Application of Digital Electronics in the field of Computer Origination
- Electronic Memory
- Flip Flop Inverter Circuits
- Synchronous and Asynchronous Circuits
- Digital Meet Analogue
- A/D Converters & D/A Converters
- Digital Circuit Troubleshooting
- Integrated Circuits Test & Instruments

**PRACTICAL TASKS:**

- Counter design
- A/D & D/A circuits
- Sequential circuit design
- Finding faults of digital circuits

**Duration: 5 Days**

Date:	Venue:	Cost:
Mar 1-5	Dammam	SR6,000
Oct 18-22	Dammam	SR6,000

## DIGITAL LOGIC CIRCUITS AND APPLICATION (IE29A)

**OBJECTIVE:**

To improve the understanding of digital circuit phenomena and applications in automation systems.

**WHO SHOULD ATTEND?**

This course is aimed at anyone involved with digital logic circuits and application in automation systems for engineers and highly qualified technicians.

**COURSE CONTENT:**

- Introduction
- Circuit Analysis and Design
- Flip Flops and Shift Registers
- Flip Flop Applications
- Timers and Counters
- Clocks
- D/A and A/D Conversion
- Digital to Analog Conversion Different Methods
- Digital Circuit Applications in Automation
- Sequential Control and Programming

**Duration: 5 Days**

Date:	Venue:	Cost:
Jan 19 – 23	Dammam	SR6,000
May 24 – 28	Dammam	SR6,000