

INSTRUMENTATION & ELECTRONIC COURSES

ADVANCED DIGITAL ELECTRONICS (IE38A)

OBJECTIVE:

This course is designed to provide knowledge of advanced digital electronics.

WHO SHOULD ATTEND?

This course is intended for instrumentation and control engineers and electronic staff.

COURSE CONTENT:

- Binary Systems and Logic Gates
- Basics of Boolean Algebra
- Digital Intergrated Circuits
- Intergrated Circuit Logic Families
- Logic Functions and its Simplification
- The Map Method
- Combinational Logic Systems
- Adders and Subtractors
- Magnitude Comparators
- Decoder and Multiplexers
- Sequential Logic Systems
- Registers, Counters and Memory
- Memory Units
- Microprocessors and Microcomputers
- Control of Processor Unit
- Microcontrollers and Applications

Duration: 5 Days

Date:	Venue:	Cost:
Feb 7-11	Dammam	SR 7,000
Jul 4-8	Riyadh	SR 8,000
Nov 14-18	Dammam	SR 7, 000

ADVANCED PROCESS CONTROL (IE27A)

OBJECTIVE:

To get a deep view of practical instrumentation aspects concerning calculation points, optimization, engineering information and problem solving which will be essential for engineers and technicians.

WHO SHOULD ATTEND?

This course is aimed at anyone involved with advanced process control and for beginner engineers, technicians and supervisors.

COURSE CONTENT:

- Closed Control Loop Types and Tuning
- Sensing Elements
- Control Valves Components Types
- Positioners and Other Control Valve Accessories
- Control Valves Sizing and Selection
- Control Valve Flow Characteristics
- Control Valve Maintenance
- Analytical Measurement and Control
- Gas Analysis
- Analyzer Measurement Applications

Duration: 5 Days

Date:	Venue:	Cost:
Mar 7-11	Dammam	SR 7,000
Aug 1-5	Abha	SR 7,000
Dec 12	Dammam	SR 7,000