

Short Term Training Program

(2017-18)

AUTOMATION

FOR ELECTRICAL / ELECTRONICS / INSTRUMENTATION / COMPUTER / MECHANICAL OR EQUIVALENT

B.SC. / M.SC. ELECTRONICS / COMPUTER SCIENCE

COURSE	CONTENTS	DURATION	COURSE FEES	GST
BASIC HYDRAULICS	INTRODUCTION, FUNDAMENTAL PRINCIPLES ENERGY SUPPLY ELEMENTS DIRECTIONAL CONTROL VALVES CIRCUIT DESIGN & APPLICATION	24 HRS 1 WEEK (4 HRS/DAY)	₹ 3,500/-	Registration Fee Of Rs. 300/- Applicable To All Courses GST 18% Extra On Registration Fee & Course Fee Is Applicable To All Courses
ELECTRO HYDRAULICS	INTRODUCTION, FUNDAMENTAL PRINCIPLES ENERGY SUPPLY ELEMENTS, DIRECTIONAL CONTROL VALVES , CIRCUIT DESIGN & APPLICATION	24 HRS 1 WEEK (4 HRS/DAY)	₹ 4,500/-	
BASIC PNEUMATICS	INTRODUCTION, FUNDAMENTAL PRINCIPLES ENERGY SUPPLY ELEMENTS, DIRECTIONAL CONTROL VALVES ,CIRCUIT DESIGN & APPLICATION	24 HRS 1 WEEK (4 HRS/DAY)	₹ 3,500/-	
ELECTRO PNEUMATICS	INTRODUCTION FUNDAMENTAL PRINCIPLES, ENERGY SUPPLY ELEMENTS DIRECTIONAL CONTROL VALVES CIRCUIT DESIGN & APPLICATION	24 HRS 1 WEEK (4 HRS/DAY)	₹ 4,500/-	
ADVANCE PNEUMATICS	INTRODUCTION FUNDAMENTAL PRINCIPLES ENERGY SUPPLY ELEMENTS DIRECTIONAL CONTROL VALVES FUNDAMENTALS OF CONTROL ENGINEERING CIRCUIT DESIGN & APPLICATION	24 HRS 1 WEEK (4 HRS/DAY)	₹ 5,500/-	
PLC PROGRAMMING	INTRODUCTION OF INDUSTRIAL AUTOMATION. DETAILS OF PLC HARDWARE (SIEMENS & Allen Bradley) PROGRAMMING LANGUAGES DOWNLOADING PROGRAMME. LIVE PRACTICE: INTERFACING BETWEEN PLC & VARIOUS FIELD DEVICES.	96 HRS 4 WEEKS (4 HRS/DAY)	₹ 8,000/-	
ADVANCE PLC PROGRAMMING	INTRODUCTION PROGRAMMABLE CONTROLLER STANDARDS JUMP & MATH OPERATORS TYPES OF BLOCKS CONCEPT OF DB AND TYPES OF MEMORY INTRODUCTION TIA V13 BASIC PROGRAMS IN TIA V13 INTERFACING OF S7-300 USING TIA INTERFACING OF S7-1500 USING TIA GRAPHING DESIGN IN HMI PLATFORM AND SIMULATION	96 HRS 4 WEEKS (4 HRS/DAY)	₹ 8,000/-	
ELECTRICAL CAD (E-CAD)	AUTOCAD & CO-ORDINATE SYSTEM ARRAY , MIRROR, COPY , MOVE INSERTING COMPONENTS, WIRE & LADDERS, TRIM, PARENT-CHILD COMP., MULTIPLE WIRE BUS & EDIT COMPONENT COMPONENT ALIGNMENT , ALIGNMENT, ATTRIBUTES, SCOOT, MOVE	72 HRS 3WEEKS (4 HRS/DAY)	₹ 4,500/-	
HMI	INTRODUCTION OF HMI COMPARISON BETWEEN SCADA & HMI COMMUNICATION OF HMI WITH PLC CREATING & EDITING GRAPHIC DISPLAY WITH ANIMATION DATABASE OF TAGS & PROCESS TAGS & INTERNAL TAGS APPLICATION OF LAD PROGRAM ON HMI MOVING OBJECT & ALARM SYSTEM MULTISCREEN TASKS WORKING WITH ONLINE TREND CONTROL	96 HRS 4 WEEKS (4 HRS/DAY)	₹ 8,000/-	
8051 MICRO-CONTROLLER	INTRODUCTION MICROCONTROLLER BASICS OF DIGITAL ELECTRONICS BASICS OF 'C' LANGUAGE TEST EQUIPMENT INTRODUCTION TO 8051 8051 ASSEMBLY/EMBEDDED C PROGRAMMING INTERNAL PERIPHERALS OF 8051 LIVE PRACTICE: ON DEMO BOARDS	96 HRS 4 WEEKS (4 HRS/DAY)	₹ 8,000/-	
SENSORS AND APPLICATIONS	TEMPERATURE SENSOR LIGHT SENSOR, IR SENSOR, PRESSURE SENSOR LVDT COIL, LOAD CELL PIEZO ELECTRIC SENSOR GAS SENSOR ALCOHOL SENSOR, HUMIDITY SENSOR FIRE SENSOR, SMOKE SENSOR FLOW SENSOR	48 HRS 2 WEEKS (4 HRS/DAY)	₹ 5,500/-	
AC DRIVES	INTRODUCTION TO DRIVES DIFFERENTS BETWEEN AC DRIVES AND DC DRIVES STUDY OF VARIOUS KINDS OF MOTOR THEIR APPLICATION AND SPEED CONTROL INTRODUCTION OF SEIMENS G120 DRIVE TYPES OF OPERATION, INTERFACING WITH PLC	48 HRS 2 WEEKS (4 HRS/DAY)	₹ 5,500/-	

COURSE	CONTENTS	DURATION	COURSE FEES	GST
MICROPROCESS OR PROGRAMMING	INTRODUCTION, INSTRUCTION SET ASSEMBLY LANGUAGE PROGRAMMING, INTERFACING PROGRAMMABLE PERIPHERAL INTERFACE LIVE PRACTICE: ON DEMO BOARDS	96 HRS 4 WEEKS (4 HRS/DAY)	₹ 8,000/-	Registration Fee Of Rs. 300/- Applicable To All Courses GST 18% Extra On Registration Fee & Course Fee Is Applicable To All Courses
MATLAB	INTRODUCTION TO MATLAB BASICS OF DIGITAL ELECTRONICS, PARALLEL COMPUTING CONTROL SYSTEM DESIGN & ANALYSIS SIGNAL PROCESSING AND COMMUNICATION TEST AND MEASUREMENT CODE GENERATION & VERIFICATION APPLICATION DATABASE, CONNECTIVITY AND REPORTING	96 HRS 4 WEEKS (4 HRS/DAY)	₹ 10,000/-	
ANSYS LF	INTRODUCTION MAXWELL BASIC, GEOMETRY IMPORT MAGNETOSTATIC, EDDY CURRENT SOLVER AC/DC SOLVER, MESH LINKING POST PROCESSING, OPTIMIZATION	72 HRS 3 WEEKS (4 HRS/DAY)	₹ 9,000/-	
ANSYS HFSS	INTRODUCTION HFSS 3D MODELER, DESIGN SETUP PARALLEL SOLVER & HPC, HFSS 3D LAYOUT ELECTROSTATIC DISCHARGE, POST PROCESSING	72 HRS 3 WEEKS (4 HRS/DAY)	₹ 9,000/-	
SCADA	INTRODUCTION OF INDUSTRIAL AUTOMATION. CREATING A NEW SCADA APPLICATION. DETAILS OF PROCESS TAGS & INTERNAL TAGS. LIVE PRACTICE: CREATING A PROCESS CONTROL WINDOW WITH ALL APPLICATIONS.	96 HRS 4 WEEKS (4 HRS/DAY)	₹ 8,000/-	
VLSI	INTRODUCTION VLSI. BASICS OF DIGITAL ELECTRONICS IN FRONT END DESIGN IMPLEMENTATION OF LOGIC IN MOSFET IN FRONT END DESIGN, BACK END DESIGN VHDL / VERILOG HDL, ASIC LIVE PRACTICE: ON DEMO BOARDS	96 HRS 4 WEEKS (4 HRS/DAY)	₹ 8,000/-	
EMBEDDED SYSTEMS	INTRODUCTION EMBEDDED SYSTEMS BASICS OF DIGITAL ELECTRONICS & "C" LANGUAGE TEST EQUIPMENT, INTRODUCTION TO ARM7 LPC 2148 PROGRAMMING INTERNAL PERIPHERALS OF LPC 1248 LIVE PRACTICE: ON DEMO BOARDS	96 HRS 4 WEEKS (4 HRS/DAY)	₹ 8,000/-	
ROBOTICS	INTRODUCTION TO ROBOTICS TYPES OF ROBOT, ACTUATORS & DRIVES SYSTEM PROGRAMMING OF ROBOT PROGRAMMING USING TEACH BOX PROGRAMMING USING SOFTWARE	72 HRS 3 WEEKS (4 HRS/DAY)	₹ 5,000/-	
AUTOMATION WITH PNEUMATICS USING PLC	BASIC, ELECTRO PNEUMATICS: INTRODUCTION, FUNDAMENTAL PRINCIPLES ENERGY SUPPLY ELEMENTS, DIRECTIONAL CONTROL VALVES FUNDAMENTALS OF CONTROL ENGINEERING CIRCUIT DESIGN & APPLICATION PLC: INTRODUCTION OF INDUSTRIAL AUTOMATION. DETAILS OF PLC HARDWARE (SIEMENS & Allen Bradley) PROGRAMMING LANGUAGES, DOWNLOADING PROGRAMME. INTERFACING BETWEEN PLC & VARIOUS FIELD DEVICES.	144 HRS 6 WEEKS (4 HRS/DAY)	₹ 14,500/-	
AUTOMATION WITH HYDRAULIC USING PLC	BASIC, ELECTRO PNEUMATICS: INTRODUCTION FUNDAMENTAL PRINCIPLES, ENERGY SUPPLY ELEMENTS DIRECTIONAL CONTROL VALVES FUNDAMENTALS OF CONTROL ENGINEERING CIRCUIT DESIGN & APPLICATION PLC: INTRODUCTION OF INDUSTRIAL AUTOMATION. DETAILS OF PLC HARDWARE (SIEMENS & Allen Bradley) PROGRAMMING LANGUAGES, DOWNLOADING PROGRAMME. INTERFACING BETWEEN PLC & VARIOUS FIELD DEVICES.	144 HRS 6 WEEKS (4 HRS/DAY)	₹ 14,500/-	
BASIC MECHATRONICS	PLC PROGRAMMING, BASIC PNEUMATICS ELECTRO PNEUMATICS MECHATRONICS PROJECTS KITS	192 HRS 8 WEEKS (4 HRS/DAY)	₹ 17,000/-	

Note:

- One batch will be started from the First & Third Monday of every month for all courses.
- Institute reserves right to incorporate changes in course contents, course duration, Intake Capacity, No. of batches & course fees without prior notice.
- For Non NSQF compliance courses course fee exemption in case of SC ST candidates is not applicable