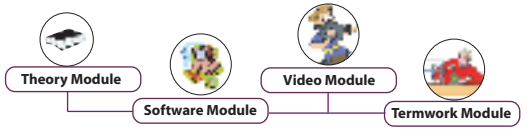
Learning Resources

Learning/Training Resources with Computer Aided Instructions in subject of

Industrial Automation

SoftTech ENGINEERS PVT.LTD. Introduces, Global e-Learning System in Education & Training in the form of Learning Resources with Computer Aided Instructions



System Requirement:- IBM-PC Compatible with Window-OS, 128 MB RAM/Multimedia Kit

Theory module

Features : Theory, Figures, Photographs, Animations with controller, Highlighter tool, Note creation facility, Systematic page navigation, Printing facility, Access to Videos at appropriate locations.

List of Topics

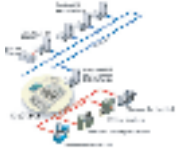
Applications of PLCs

Specifications of advanced PLC, input speed modules, modular controller, high speed counter, remote input output scanner,PLC programmer and its features, programming instructions, timer counter, bit, comparison, file move and logical, input output massage, maths, programme flow control, shift register and sequence, MCS- MCR, data handling, FIFFO/ LIFO, Branch instructions, conversion, Data transfer.

System Configuration

PLC installation, PLC simulator, programming languages, ladder diagram, Boolean and statement. Development of laddedder diagram&/ flow chart or. sequence map (table,slot) or data flow diagram primitives,Auto matic door opening in hot chambers, cooling process, batch process, batch reactor control sequences, Tank level control, auto resistance welding sequence, auto drilling station, flip flop, event/ time drum, cascaded counters.

Process Computer Ccontrol System



Functional reqirement of DPCS, DPCS system configuration and intgration with PLCs and computers,

DPCS System

Overview of DPCS, system architectures, Data base organization. DPCS elements, Comparison of different DPCS systems,State of the art in DPSC, configuration of control unit, system implementation concepts, workstations and its key- functions and function chart.

Software Algorithm

System Software, application software, & communication software, sequential table (Slot), Types of algorithms: input signal conditioning, dataacquisition, signal processing, dynamic compensation functions, PIDs, Sequential, adaptive & Optimal control algorithms.

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