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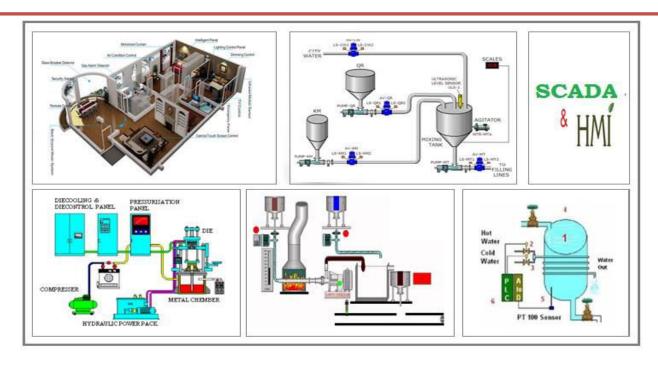
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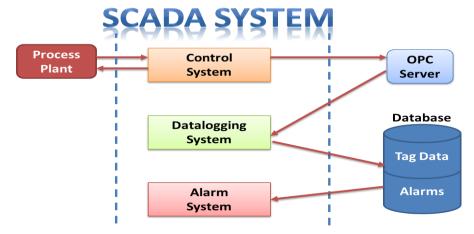
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Theory of SCADA

- > Introduction
- ➤ Industrial Automation Basics
- ➤ Basic Knowledge
- ➤ Data & Communications
- > Types of SCADA & Different SCADA Products.
- > Project overview
- Project Management
- > Running the Project
- > Graphical Animation
- ➤ Web Buttons
- > Slider Movement
- Visibility
- ➤ More Animations
- > Server-side Scripting
- ➤ Client-side Scripting
- Many side scripting



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- > HTML Basics
- Database

Theory of HMI

- ➤ HMI function
- ➤ Data handling with HMI
- > Terminology
- > History
- > Command Line Interface
- ➤ Interface Design
- ➤ Interface Types
- > Terminology
- ➤ Configuration and interfacing with PLC and PC
- Communication standards, Ethernet, RS485,RS232



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Practicals on SCADA

- ➤ Introduction of Monitoring systems SCADA & HMI.
- ➤ Detail study on Industrial SCADA Applications.
- Practical configuration of SCADA Project.
- Practical Hands on Tag Development.
- ➤ Practical Interfacing different sensors signal to SCADA systems.
- ➤ Practical Interfacing different sensors to Real Time Trends/Alarms.
- Practical Interfacing different sensors to Historical Trends / data retrieving.
- ➤ Data Management interfacing from SCADA to Excel
- ➤ Practical Interfacing of SCADA Systems to PLC Hardware to control Plant from remote Locations.



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Practicals on HMI

Basic experiments

- I/O instructions: NO,NC O/P coil, Inverter I/P, inverter O/P, logic gates
- Data Transfer: MOV word: moving data to register or on data visible on the screen MOV toward Table initialize Table block transfer Data exchange between to register or two displayed data. Arithmetic: Addition, subtraction, multiplication, division, increment, decrement, square root: using above instruction implementation of basic level maths function, calculator, pulse generator
- Comparison: greater than/less than, equal to, not equal to: decision making algorithms. store the specific data decision basis

Advanced experiments

- Timer : on/Off timer
- Counter: single pulse counter, Up/down counter, counter using rising edge and falling edge to avoid noise
- subroutine: call and ret instructions
- Program control: examples for jump, for loop, master set/reset, sequential initialization, sequential input/output.
- interrupt enable/disable



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Touch screen specific experiments

- Drawing tools: to draw shapes and animate it as per need, insert image, insert background images
- quick buttons: go to screen, next screen, previous screen, open popup screen, reset, write value, add value, toggle bit
- show data: numerical, bit and message data, edit data
- Advanced options: buttons, bit buttons, word buttons, lamp, bar graph, pie graph, meter graph, multiple bar graph, trend, alarms.
- clock object: time, date