



SHRI VAISHNAV VIDYAPEETH VISHWAVIDYALAYA INDORE

Report on Webinar on “Introduction to PLC & SCADA” In association with Mitsubishi Electric India

Department of Electrical and Electronics SVITS successfully conducted a webinar on “Introduction to PLC & SCADA” for the students of SVITS, SVVV under the industry academia collaboration with Mitsubishi Electric India.

The details of the webinar are as follows-

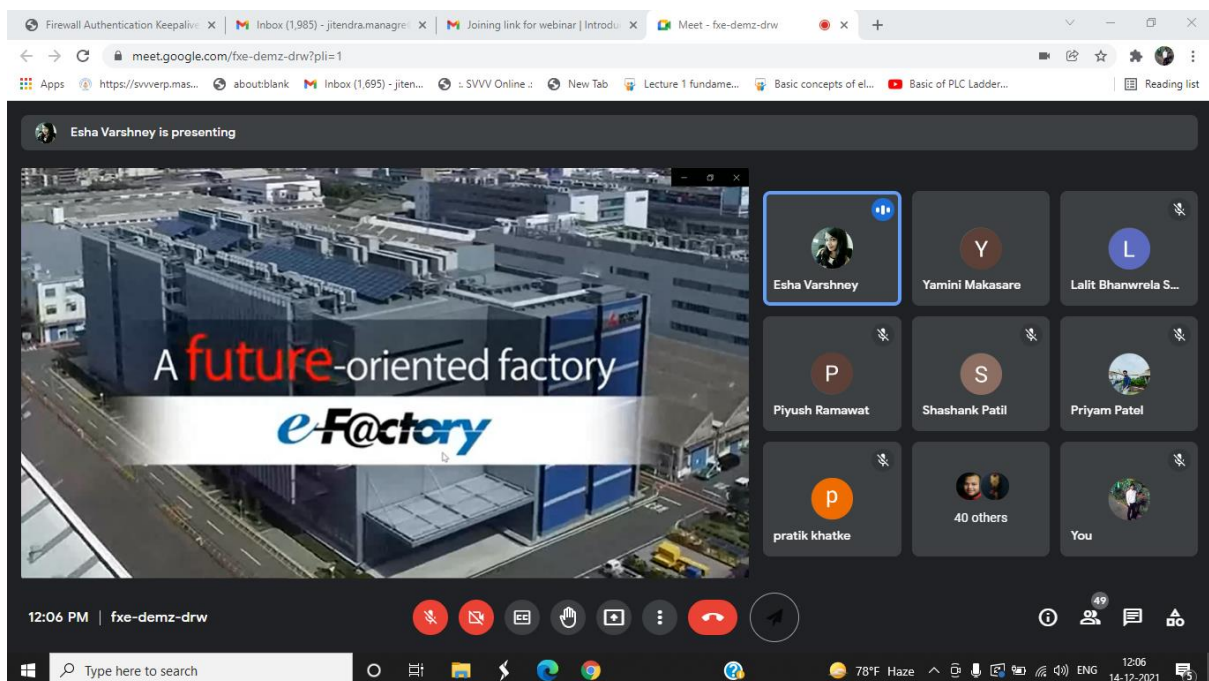
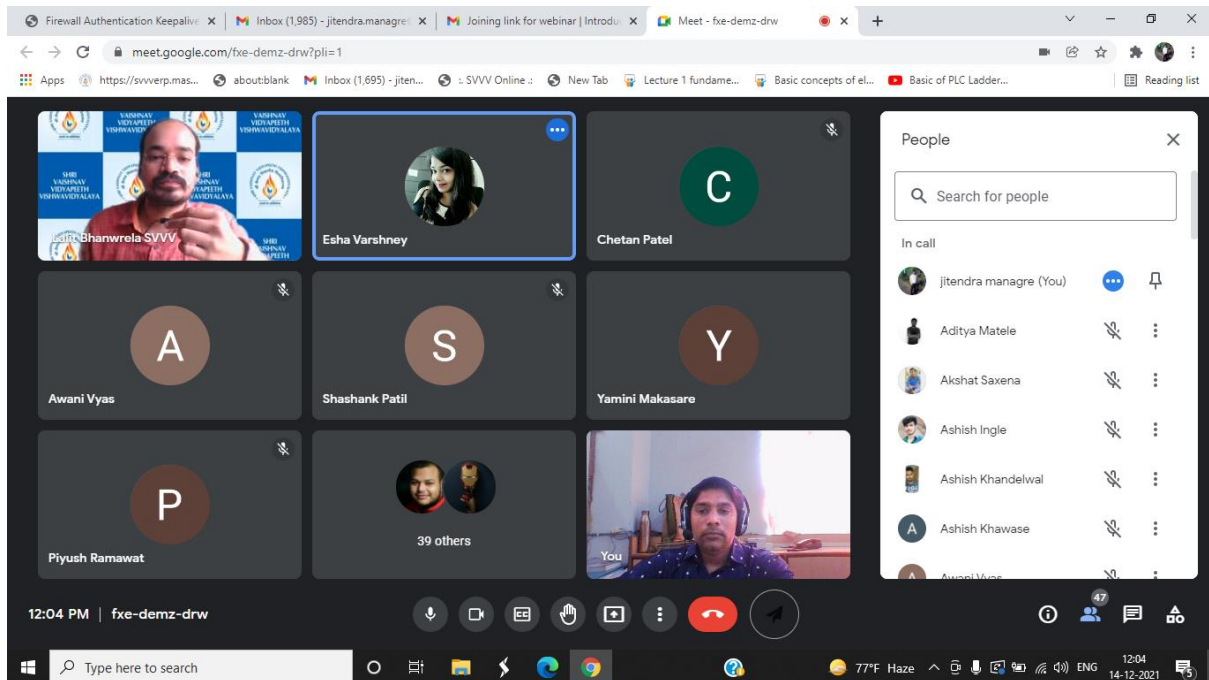
Particulars	Details
Objective	The objective of the webinar is to learn about PLC and SCADA technological tools.
Date	14 & 17 DEC 2021
Time	12:00pm to 1:00pm
Topic	Introduction to PLC & SCADA
Speaker	Ms. Esha Varshney, Engineer FAC MEI
No. of students registered	87
No. of students attended	44

Summary

Prof. Lalit Bhanwrela (Incharge of Mitsubishi Factory Automation Lab at EEE Dept. SVITS) was the moderator of the event and he welcomed the guest speaker Ms. Esha Varshney, Engineer FAC MEI along with Prof. Jitendra Managre EEE Dept. After this Prof. Lalit Bhanwrela gave a brief introduction of the Mitsubishi Factory Automation Lab to the audience. The webinar session saw an overwhelming response from all registered students of the SVITS. A total of 44 students out of 87 students attended the session and some faculty members also participated in the session. Ms. Esha Varshney, as the guest speaker, talked about the PLC and its block diagram. She covered the technical configuration of Mitsubishi PLC products and their applications. She also gave a brief introduction about programming languages which are used

in PLC like Ladder, Function block diagram, Sequential functional block, Instruction list and Structured text etc. In the second session of this webinar she talked about the programming part and gave the examples of motor power on-off PLC programs, timer based power operations etc. After the session students asked various questions in the Q&A part and all the questions were technically handled by the speaker. In the end Prof. Jitendra Managre EEE Dept. proposed the words of thanks.

Glimpse of Webinar




Firewall Authentication Keepalive X | Inbox (1,986) - jitendra.managre X | Joining link for webinar | Introdu X | Meet - fxe-demz-drw X

meet.google.com/fxe-demz-drw?pli=1

Apps | https://svvverp.mas... | aboutblank | Inbox (1,695) - jiten... | SVVV Online : | New Tab | Lecture 1 fundame... | Basic concepts of el... | Basic of PLC Ladder... | Reading list

Esha Varshney is presenting



Contents

- Introduction
- Architecture of PLC: PLC scan
- Various Inputs of PLC
- Concept of Switches and Sensors
- Wiring of inputs
- Various Outputs of PLC
- Concept Of Lamps, Contactors, Relays etc
- Wiring Of outputs
- Logic Gates and number system
- Programming Languages
- What Is IP Address? Classes of IP Address
- How to set the IP Address For PC
- How to the IP Address of PLC

Esha Varshney

Yamini Makasare

Lalit Bhanwrela S...

Piyush Ramawat

Shashank Patil

Priyam Patel

pratik khatke

42 others

You

12:12 PM | fxe-demz-drw

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78°F Haze 12:12 14-12-2021

Firewall Authentication Keepalive X | Inbox (1,988) - jitendra.managre X | Joining link for webinar | Introdu X | Meet - fxe-demz-drw X

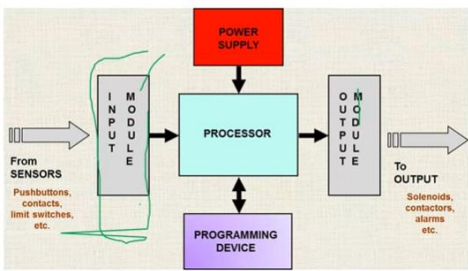
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Esha Varshney is presenting



Architecture Of PLC



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graph LR; Sensors[From SENSORS  
Pushbuttons, contacts, limit switches, etc.] --> Input[INPUT]; Input --> Processor[PROCESSOR]; Processor --> Output[OUTPUT]; Output --> Devices[To OUTPUT  
Solenoids, contactors, alarms etc.]; Power[POWER SUPPLY] --> Processor; Processor <--> Programming[PROGRAMMING DEVICE];
```

Esha Varshney

Lalit Bhanwrela S...

Yamini Makasare

Dikshant Agrawal

pratik khatke

Sankalp Tiwari

Mohit Singh Chou...

41 others

You

12:38 PM | fxe-demz-drw

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78°F Haze 12:38 14-12-2021

Firewall Authentication Keepalive X | Inbox (1,985) - jitendra.manag... X | Joining link for webinar | Introdu... X | Meet - fxe-demz-drw X

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shounak mandloi | Lalit Bhanwreia SVVV | Yamini Makasare | Esha Varshney | Aavesh Mansuri

Akshat Saxena | Rishabh Kaushik | 28 others | You

1:20 PM | fxe-demz-drw

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77°F Haze | 13:20 | 14-12-2021

Esha Varshney is presenting

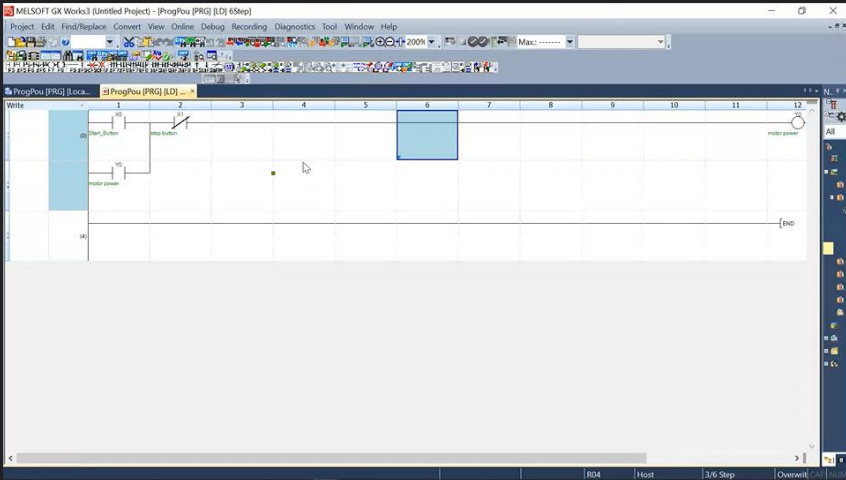
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File Edit Format View Help
Untitled - Notepad
Ln 16, Col 1
y16
y17
y18
y19
y1a
y1b
y1c
y1d
y1e
y1f
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Ln 286, Col 1 | 100% | Windows (CRLF) | UTF-8

Session 2 (Webinar on Introduction to PLC and SCA...)

Esha Varshney | Lalit Bhanwreia SVVV | Akshat Saxena | Dhruvraj singh Chou... | Dikshant Agrawal | Yamini Makasare | Mohit Singh Chouhan | 32 others | You

Esha Varshney is presenting



MELSOFT GX Works3 (Untitled Project) - [ProgPou (PRG) (LD) 65Step]

Project Edit Find/Replace Convert View Online Debug Recording Diagnostics Tool Window Help

ProgPou (PRG) (Loca) ProgPou (PRG) (LD) ...

Write







1 2 3 4 5 6 7 8 9 10 11 12






motor power

END

RD4 | Host | 3/6 Step | Overwrite

Session 2 (Webinar on Introduction to PLC and SCA...





Esha Varshney

Lalit Bhanwre SVVV

Akshat Saxena

Vaibhav Rathore

practical approach o...

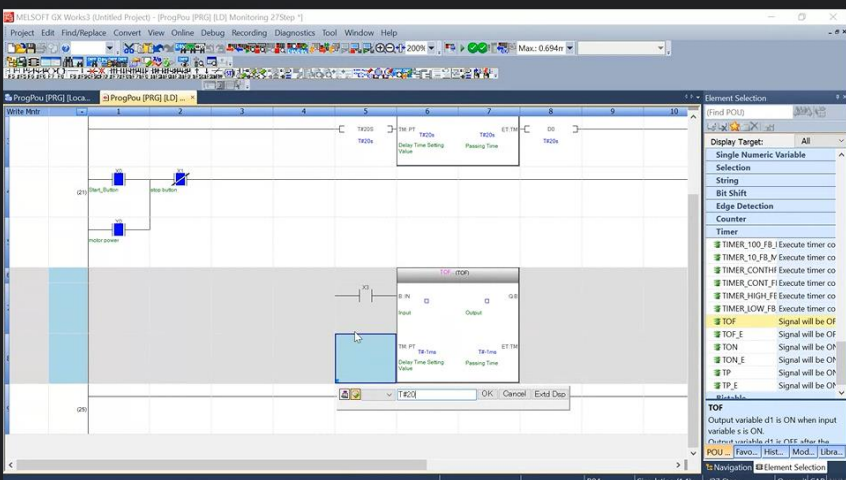
Yamini Makasare

Mohit Singh Chouhan

30 others

You

Esha Varshney is presenting



MELSOFT GX Works3 (Untitled Project) - [ProgPou (PRG) (LD) Monitoring 2/27Step 1]

Project Edit Find/Replace Convert View Online Debug Recording Diagnostics Tool Window Help

ProgPou (PRG) (Loca) ProgPou (PRG) (LD) ...

Write







1 2 3 4 5 6 7 8 9 10 11 12






motor power

END

RD4 | Simulation (1,1) | 2/27 Step | Overwrite

Session 2 (Webinar on Introduction to PLC and SCA...





Esha Varshney

Lalit Bhanwre SVVV

Harshit Singh Kushw...

shounak mandloi

Dhruvraj singh Chou...

Yamini Makasare

pratik khatke

24 others

You

Firewall Authentication X | Inbox (1,991) - jitendi X | (no subject) - falab.sv X | Google Calendar - Wi X | Meet - Session 2 X | WhatsApp X | +

meet.google.com/rvt-pgnj-bhm?authuser=2

Apps | https://svvverp.mas... | aboutblank | Inbox (1,695) - jiten... | SVVV Online : | New Tab | Lecture 1 fundame... | Basic concepts of el... | Basic of PLC Ladder... | Reading list

The screenshot displays a Google Meet interface with a grid of participants. The participants are arranged in two rows. The top row includes Lalit Bhanwrela SVVV, Esha Varshney, shounak mandloi, Dikshant Agrawal, and Shashank Patil. The bottom row includes Dhruvraj Singh Chouhan, pratik khatke, a placeholder for 19 others, and a 'You' tile. The bottom of the screen shows a Windows taskbar with a search bar, application icons, and system information including the date and time (11:32 AM, 17-12-2021).

11:32 AM | Session 2 (Webinar on Introduction to PLC...

Type here to search

Firewall Authentication X | Inbox (1,991) - jitendi X | (no subject) - falab.sv X | Google Calendar - Wi X | Meet - Session 2 X | WhatsApp X | +

meet.google.com/rvt-pgnj-bhm?authuser=2

Apps | https://svvverp.mas... | aboutblank | Inbox (1,695) - jiten... | SVVV Online : | New Tab | Lecture 1 fundame... | Basic concepts of el... | Basic of PLC Ladder... | Reading list

This is a duplicate of the first screenshot, showing the same Google Meet session with the same participants and system information.

11:32 AM | Session 2 (Webinar on Introduction to PLC...

Type here to search

Firewall Authentication X | Inbox (1,991) - jitendi X | (no subject) - falab.sv X | Google Calendar - Wi X | Meet - Session 2 X | WhatsApp X | +

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