



# SHRI VAISHNAV VIDYAPEETH VISHWAVIDYALAYA INDORE

## Report on Workshop on “Fundamentals of PLC Programming” In association with Mitsubishi Electric India

The Department of Electrical and Electronics SVITS successfully conducted a workshop on “Fundamentals of PLC Programming” for the SVITS, SVVV and other college’s students under industry academia collaboration with Mitsubishi Electric India.

*The details of the webinar are as follows-*

<b>Particulars</b>	<b>Details</b>
Objective	The objective of the workshop is to understand the fundamentals of the PLC programming
Date	13 APR 2022
Time	11:30am to 1:30pm (For online session) 02:00 pm to 3:00 pm (For offline session)
Topic	Fundamentals of PLC Programming
Speakers	Mrs. Nidhi Shivhare Engineer FAID, MEI (For Online Session) Prof. Jitendra Managre, Assistant Professor, SVITS (For offline session in FA Lab to demonstrate kits in FA Lab)
No. of students registered	26
No. of students attended	26

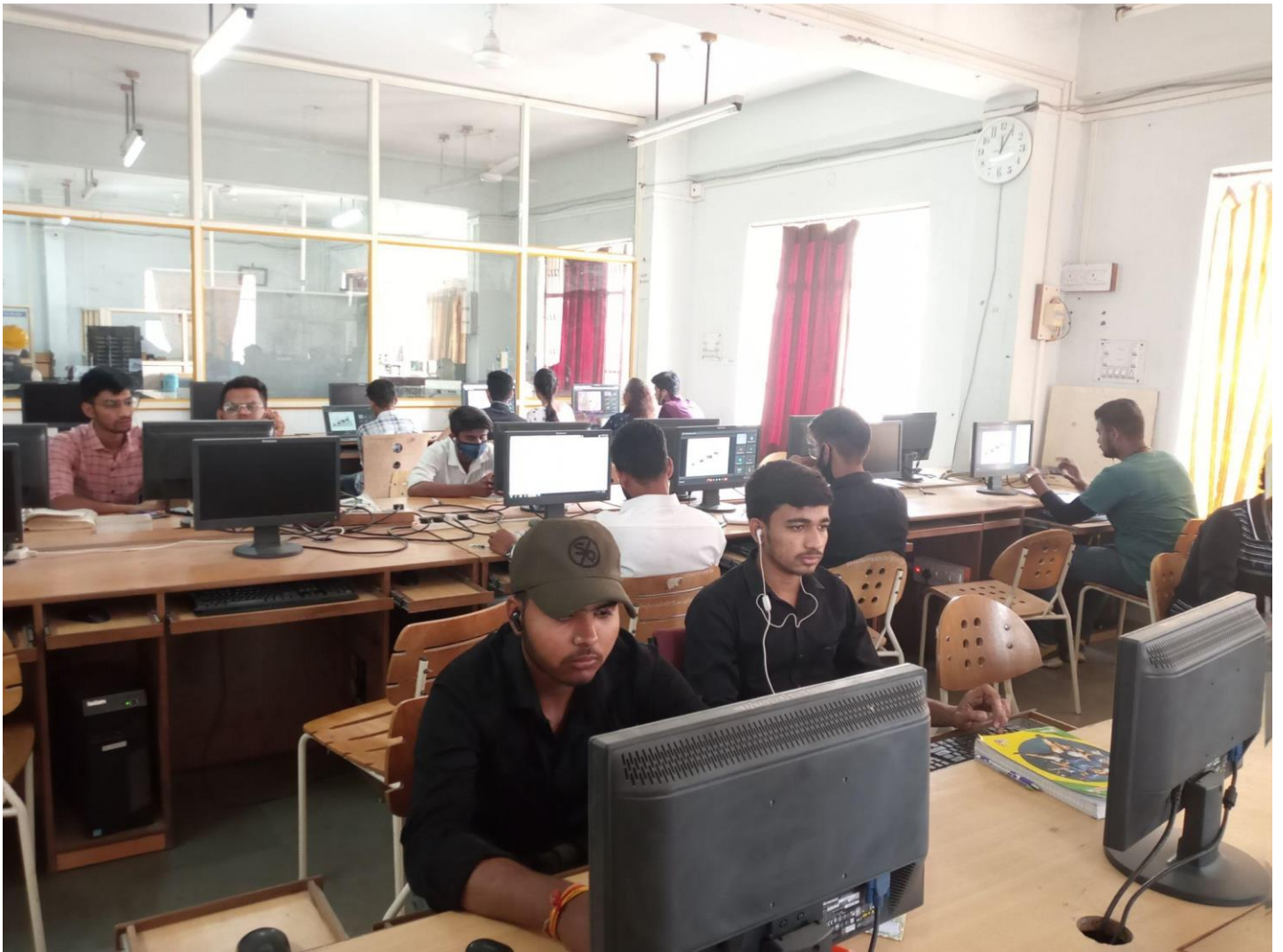
### **Summary**

*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 Mrs. Nidhi Shivhare, Engineer FAID, 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 workshop session saw an overwhelming response from all registered students. A total of 26 students attended the session and some faculty members also participated in the session. Mrs. Nidhi Shivhare, as the guest speaker, started the sessions with the technical configuration of Mitsubishi PLC products and their applications. She also gave a brief introduction about Input Modules and concepts of source and sink input which are used in PLC like Ladder, Function block diagram, Sequential functional block, Instruction list and Structured text etc. Thereafter she demonstrated the GXWorks3 PLC*

programming tool of MEI particularly for ladder logic and also explained the programming concepts with several examples. After the session students asked various questions in the Q&A part and all the questions were technically handled by the speaker. After this online session, session 2 was conducted by Prof. Jitendra Managre EEE Dept. as he coordinated with all the students for the FA lab visit and demonstration of the hardware kits available in the FA lab at SVVV Indore and then Prof. Lalit Bhanwrela concluded the session.

### **Glimpse of Workshop**

#### **Online Session**



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URL: <https://meet.google.com/ih-knjy-stf?pli=1>

Nidhi Shivhare is presenting

People

Add people

- Ankit Verma
- Archit Goyal
- arunabh vikram
- Ashwin Patidar
- Chirag Chitlangya
- factory automation
- Gauthami Naidu
- Harsh Parmar

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URL: <https://meet.google.com/ih-knjy-stf?pli=1>

Nidhi Shivhare is presenting

Table: R-CPU Details

	MB630	MB630	MB630	MB630	MB630
Control method					
SD control mode					
Programming language					
Extended programming language					
Program execution type					
Number of I/O points (I+Q)	4000	4000	4000	4000	4000
Constant run time (s)			0.2-2000		
Standard for machine keypad scan time					
Program memory (kB)	40K	80K	160K	320K	640K
Downloadable memory* (kB)	300K	600K	1200K	2400K	4800K
Downloadable memory** (kB)	400K	800K	1600K	3200K	6400K
Data memory (kB)	20K	40K	80K	160K	320K
Power supply					
LED indication (ms)	0.30	0.30	0.30	0.30	0.30
LED indication time	1.30	1.30	1.30	1.30	1.30
LED indication (charging pulse address) (ms)	0.3	0.3	0.3	0.3	0.3
Structural lead of expansion*** (ms)	1.30	1.30	1.30	1.30	1.30
Structural lead of I/O module**** (ms)	1.30	1.30	1.30	1.30	1.30
AC input voltage (V)	100-240	100-240	100-240	100-240	100-240
AC input current (A)	4.3	4.3	4.3	4.3	4.3
AC input power (W)					
Power supply (V)					
Power supply (A)					
Power supply (W)					
Power supply (VA)					
Power supply (Hz)					
Power supply (Phase)					
Power supply (Temperature)					
Power supply (Altitude)					
Power supply (Humidity)					
Power supply (Vibration)					
Power supply (Shock)					
Power supply (EMI/RFI)					
Power supply (Safety)					
Power supply (Compliance)					
Power supply (Other)					

People

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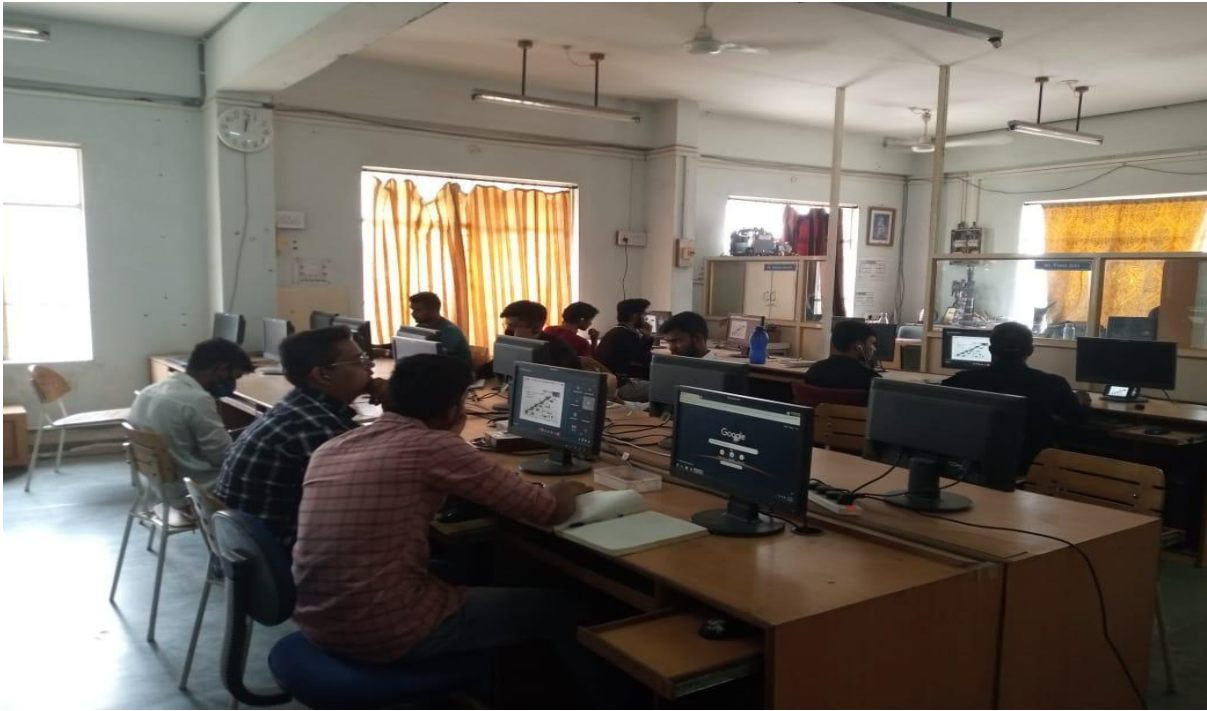
In call

- Lalit Bhanwrela SVVV (You)
- Ankit Arwal
- Ankit Verma
- Archit Goyal
- arunabh vikram
- Ashwin Patidar

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**Offline Session**



