**VILASRAO DESHMUKH FOUNDATION GROUP OF INSTITUTIONS, LATUR**

Plot No.165A, Additional MIDC, Near to Manjara Sugar, Barshi Road, Latur, Maharashtra 413531

(Approved by AICTE, New Delhi & recognized by Govt. of Maharashtra and affiliated to DBATU Lonere, Dist. Raigad)

T (02382) 267731/32/33          Email-info.engg@vdf.in          Website: www.vdfengineering.co.in(DTE Code: 2254)

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2. SCADA Programming and Hardware Online Webinar Report

Date: [11/11/2022]

On 11/11/2022 an online webinar on SCADA (Supervisory Control and Data Acquisition) programming and hardware was held by The World of Automation, Pune. More than 48 students participated this webinar. The webinar aimed to provide participants with valuable insights into the fundamentals of SCADA systems, programming techniques, and an overview of the associated hardware components. This report summarizes the key topics covered during the webinar and highlights the key takeaways.

Webinar Agenda:

Introduction to SCADA systems

SCADA architecture and components

SCADA programming languages and techniques

Overview of SCADA hardware

Real-world applications of SCADA systems

Q&A session

Summary of Key Topics Covered:

Introduction to SCADA systems: The webinar began with an introduction to SCADA systems, explaining their purpose and importance in various industries. The presenter discussed how SCADA systems enable remote monitoring and control of industrial processes and highlighted their role in enhancing efficiency, safety, and productivity.

SCADA architecture and components: The webinar provided an overview of the typical SCADA architecture and its components. The presenter explained the roles of various components such as RTUs (Remote Terminal Units), PLCs (Programmable Logic Controllers), HMI (Human-Machine Interface), communication networks, and data storage systems. The architecture's hierarchical structure and data flow between the components were also discussed.

SCADA programming languages and techniques: Participants were introduced to the programming languages commonly used in SCADA systems, such as ladder logic, function block diagrams, and structured text. The webinar covered basic programming concepts and techniques, including creating alarms, trends, and data logging. Best practices for developing robust and maintainable SCADA programs were also shared.

Overview of SCADA hardware: The webinar provided an overview of the hardware components involved in SCADA systems. Topics covered included sensor types, actuators, various types of communication

**Principal**

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protocols (such as Modbus, Profibus, and DNP3), and the selection criteria for different hardware components based on application requirements.

Real-world applications of SCADA systems: The presenter discussed several real-world applications of SCADA systems across industries, including manufacturing, energy, water treatment, and transportation. Examples of how SCADA systems improved operational efficiency, fault detection, and maintenance processes were provided. Case studies showcasing successful implementations were also shared.

Q&A Session: The webinar concluded with an interactive Q&A session where participants had the opportunity to ask questions related to SCADA programming and hardware. The presenter addressed queries regarding specific programming techniques, hardware integration challenges, and emerging trends in SCADA technology.

Key Takeaways:

SCADA systems play a critical role in remote monitoring and control of industrial processes.

Understanding the architecture and components of SCADA systems is essential for effective design and implementation.

Programming languages such as ladder logic, function block diagrams, and structured text are commonly used in SCADA programming.

Knowledge of SCADA hardware components and communication protocols is crucial for system integration.

Real-world applications of SCADA systems span across industries and demonstrate their impact on operational efficiency and maintenance.

Continuous learning and staying updated with emerging trends in SCADA technology is important for professionals in the field.

Conclusion: The SCADA programming and hardware online webinar provided participants with a comprehensive overview of SCADA systems, programming techniques, and hardware components. By exploring real-world applications and addressing participant queries, the webinar successfully enhanced attendees' understanding of SCADA technology. Participants gained insights into the crucial role of SCADA systems in industrial automation and the importance of efficient programming and hardware integration.

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# PLC & SCADA programming & Hardware Webinar

[11:36 am, 11/11/2022] Prof.Rajesh Ingale: Dear TE/ BE /Final Year Students

Welcome to The World of Automation, Pune

Greetings!

*The World of Automation,*brings,

organizes a " Free Online PLC & SCADA programming & Hardware Webinar" .

For BE  (Electrical, E&TC, Instrumentation) Engineering students.

Webinar is Scheduled on ----------- at ------- PM.

The session will include the following points.

1. What is Automation

2 Advantages of Automation

3 History of Automation

4 What is PLC?

5 Advantages of PLC

6 PLC Brands

7 PLC Block diagram

8 PLC Inputs/Outputs

9 PLC Programming Languages

10 Basic of Ladder Diagram

11 Basic of N/O, N/C

12 Timer Basic

13 SCADA Introduction and Brands

14 Advantages of SCADA

15 Introduction of Drive and Types

Principal

All students must attend this Webinar as it is for an opportunity to go National /International for higher Studies

Link for Registration

https://docs.google.com/forms/d/e/1FAIpQLSfl4zi43VUH8cz--R29fpNTQTMDNx9KNqTUAINLzLoCr0jmhA/viewform?usp=pp_url

Session in-Charge,

Irshad Ali Sir

Sr. Automation Engineer

[11:36 am, 11/11/2022] Prof.Rajesh Ingale: Industrial Automation (PLC SCADA) Seminar

Saturday, 12 November · 11:00am – 1:00pm

Google Meet joining info

Video call link: https://meet.google.com/evk-pfud-nrq

[11:41 am, 11/11/2022] Prof.Rajesh Ingale: Link for Registration

https://docs.google.com/forms/d/e/1FAIpQLSfl4zi43VUH8cz--R29fpNTQTMDNx9KNqTUAINLzLoCr0jmhA/viewform?usp=pp_url

← About this call

| People | Information | Activities |

Raised hand

Suraj Kamble

You    Mr. Vik +51

In call

Rajesh Ingale (You)

The World Of Auto...
Meeting host

59. Shekhar Pitale

Abhijeet Bulbule

abulais biradar

aditya lohar

Aitanbone Priti

Akash

Akash Chincholkar

Amit Kadam

Anees Fatema Niza...

Bagwan Sohel

← About this call

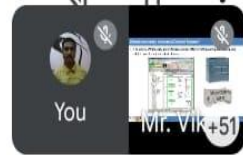| People | Information | Activities |

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Hasan Kasar

Jadhav Vikram

Jagruti Solanke

JAYAD SAYYAD

Khose Amruta

Mangesh Shinde

Mitali Kamble

Mohini R Bhadikar

Mr. Vikas Gade

You    Mr. Vik +51

← About this call

People     Information     Activities

| M | Mr. Vikas Gade | | | |
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**IAF** **IAS** Vilasrao Deshmukh Foundation **VILASRAO DESHMUKH FOUNDATION, GROUP OF INSTITUTIONS** **SCHOOL OF ENGINEERING & TECHNOLOGY, LATUR** **IEEE** **ISO**

# Certificate of Completion

This is to certify that **Mr.** _SURAJ KAMBLE_ has successfully completed **PLC (Programmable Logic Control) & SCADA (Supervisory Control & Data Acquisition)** online Workshop jointly organized by **The World of Automation** in association department of Electrical Engineering and VDF School of Engineering & Technology, Latur, during **19**th **Feb.2022 to 20**th **Feb. 2022.**

☑ **AB PLC**          ☑ **In touch SCADA**

📍 Manik Raj Park, 2nd Floor, Office no – 4, Opp. Elpro City Square Mall, PCMC Link Road, Chinchwad – 411033

📞 8530084777 / 8530084777 / 9075102234

**Prof. Anil Biradar**
TPO
VDF School of Engineering &
Technology, Latur,

Principal
VDF School of Engineering
& Technology, Latur,

**Authorised Signatory**
**Mrs. Priyanka Oza**

**+91 77983 65414**
online

+91 77983 6541·  May 3, 2022
Attained, better experience 👍

Yesterday,
I attained PLC programming training
at World Automation center,
It was amazing experience for
industrial automation.
It's gain to best kind of knowledge.
Arrange many similar training in next
day's.

**In today's changing generation
there is need to update us with new
technology**

Thank you VDF family to arrange this
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**Regards
Amar Shashikant Mengale**
Roll. No.- **49**
Electrical 2nd year(B-tech)          11:19

Please make a group admin I will
post on official electrical group     11:21

May 5, 2022

+91 90758 03861   15:08

☺ | Message          📎  ₹  📷          🎤

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You • TE ELT202.  May 2, 2022  Jf

📷 Hello Everyone,

Welcome to "The world of auto...

Attained, better experience 👍

17:11

May 3, 2022

Hi  09:48 ✓✓

Call.me  09:48 ✓✓

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Message

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# Certificate of Completion

This is to certify that _Amar shashikant Mengale_ has

successfully completed One week workshop on **PLC (Programmable Logic Control)**

organized by *The World of Automation* during _2^nd May_ to _7^th may_ .

☑ Mistubishi (GX Works - 2)

**BRANCH : CHINCHWAD**

📍 Balaji Niwas , (B) Wing, Office No -12, 3rd Floor, Near Chinchwadgaon Bus Stop, Opp Elpro Square Mall, Opp Heritage plaza, PCMC link Road, Chinchwad - 411033.

🟢 8530094777 / 8530084777 / 9075102234

**BRANCH : SHIVAJINAGAR**

📍 Office No.3, Riverview, Ekta Park Society, Beside Chatrapati Shivajinagar Bus Stand, Wakdewadi, Pune - 411005.

🟢 7276695435 / 9075102234

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