

From

Mr.D.Manoj,
Assistant Professor/EEE,
SSMIET,
Dindigul.

To

The Principal,
SSMIET
Dindigul.

Through,

The HOD
Department of EEE
SSMIET,
Dindigul

Respected Sir,

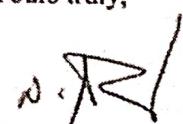
Sub: Seeking permission to conduct five days value added program on "Industrial Automation" -reg.,

As the department of EEE is going to conduct a Five days value added program on Industrial Automation from 18.10.2021 to 23.10.2021 for final year students by Shree Technologies (A Franchisee of Prolific Systems & Technologies Pvt Ltd. Coimbatore).so we are seeking permission to conduct the program. Hereby, I kindly request you to do the needful regarding this.

Note: Entire training fee will be paid by our students

Thanking you

Yours truly,

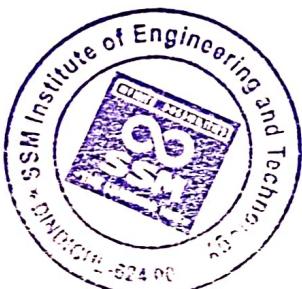

(D. Manoj)

Dindigul
13.10.2021


HOD/EEE


PRINCIPAL


Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (IUS)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002.





SSM Institute of Engineering and Technology
sindalagundu post, Dindigul-624 002, Tamilnadu, ph: 0451-2448800
(Approved by AICTE, Affiliated to Anna University, Chennai Accredited by NAAC)

Department of Electrical and Electronics Engineering
Organizes
Six days Technology Training Program on
" Industrial Automation "
For the IV year students of EEE

from (18.10.2021 to 23.10.2021)

Trained by

Shree Technologies Private Limited, Coimbatore

Co-ordinators

Mr.D.Manoj,AP/EEE
Mr.P.Siva Subramanian, AP/EEE

HoD

Dr.C.Mohambabu

Principal

Dr.D.Senthil Kumaran

All are Invited



Dr.D.SENTHIL KUMARAN, M.E., Ph.D. (WISI)
Principal
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Palani Road, Dindigul - 624 002



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC)
Dindigul-Palani Highway, Dindigul-624002

CIRCULAR

14/10/2021

This is to inform that five days training program on **INDUSTRIAL AUTOMATION** is going to conduct for IV year EEE students from 18.10.2021 to 23.10.2021, by Shree Technologies private limited, Coimbatore. All the students are informed to attend and enrich your knowledge.


Faculty In-charge


HOD EEE


Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (P.),
Palani Road, Dindigul - 624 002.





SOM INSTITUTE OF ENGINEERING AND TECHNOLOGY
Sindalagundu post, Dindigul-624002.
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ATTENDANCE HANDS ON TRAINING ON INDUSTRIAL AUTOMATION

SENTHIL KUMARAN, M.E., Ph.D., INIUS
Principal
Senthil Kumaran Engineering and Technical Institute
Zuddathupatti Village, Sivagangai, Tamil Nadu, India
EN, Main Road, Dindigul - 624 002

| S. No. | Reg.no. | Student Name | 18.10.21 | | 20.10.21 | | 21.10.21 | | 22.10.21 | | 23.10.21 | |
|--------|--------------|-----------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | FN | AN |
| 22 | 922118105023 | SABAPATHIS | s.sly |
| 23 | 922118105024 | SABARIVASAN T | T.Labdt |
| 24 | 922118105026 | SHANKAR GANESH G | G.Shan |
| 25 | 922118105027 | STERLIN INFANT DASS W | W.Labdt |
| 26 | 922118105029 | SURYA J | J.Surya |
| 27 | 922118105030 | THANUJ K | ← NA | → | — | — | — | — | — | — | — | — |
| 28 | 922118105031 | THAVA HARISH P | THP |
| 29 | 922118105033 | VIGNESHWARAN K | K.Vign |
| 30 | 922118105034 | VISWAKSHENAN J | J.Viswaksh |
| 31 | 922118105301 | GOPALAKRISHNAN L | L.Gopal |
| 32 | 922118105302 | KARTHICK S | K.Karthick |
| 33 | 922118105303 | MARIA LEO ARUN A | MAARUN |
| 34 | 922118105305 | MUKESH B | Mukesh |
| 35 | 922118105306 | NAVANEETHA PANDIAN P | P.Naveen |
| 36 | 922118105307 | PRAVINKANTH K | P.Kant |

Trainer

Faculty Incharge

HOD EEE

Principal

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Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu(Po),
rajan Road, Dindigul 624 002





Topics Covered

➤ Programmable Logic Controllers (PLC)- Advance

Introduction to PLC

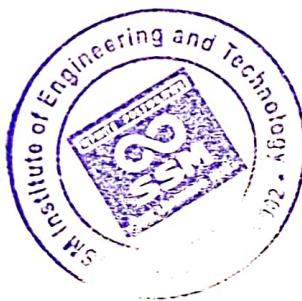
| Topic | Mode |
|--|--|
| ➤ Introduction to PLC hardware and role in automation | Presentation and physical observations |
| ➤ Architectural Evolution of PLC | |
| ➤ Introduction to the field devices attached to PLC | |
| ➤ PLC Fundamentals – (Block diagram of PLC's) | Practical demonstration on hardware |
| ➤ Detail information about PLC components <ul style="list-style-type: none"> ○ Power supply, CPU, I/Os, Communication bus | |
| ➤ Various ranges available in PLC's | |
| ➤ Types of Inputs & outputs / Source Sink Concepts | Practical on PLCs |
| ➤ Wiring of the I/O devices | |
| ➤ Concept of flags | Practical on PLCs |
| ➤ Scan cycle execution | |

Maintenance and Troubleshooting of PLC

| Topic | Mode |
|--|--------------------------------------|
| ➤ Setting up PLCs / Connecting CPU, I/O modules, Rack, Backplane and Communication bus | Practical – Assembling PLC |
| ➤ Connecting Field devices to PLCs I/Os | Practical –Physical wiring |
| ➤ Installing and to starting the programming terminals | Practical – Installation of software |
| ➤ Identifying the status of PLC and communication bus | Practical on PLCs |
| ➤ Fault detection and error handling | Practical on PLCs |
| ➤ Forcing of the I/O's | Practical on Software |
| ➤ Back up of the programs and reloading | Practical on PLCs |
| ➤ CPU, I/O module replacements | Practical on PLCs |



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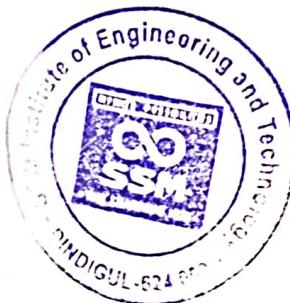


Supervisory Control & Data Acquisition Software (Wonder ware InTouch 10.0)

Topics Covered

- Applications of SCADA software
- Different packages available with I/O structure
- Features of SCADA software
- Creating a new SCADA application
- Creating Database of Tags
- Creating & Editing graphic display with animation
- ✓ Data Entry
- ✓ Start Stop command
- ✓ Analog entry
- ✓ Sizing,
- ✓ Movement,
- ✓ Blinking,
- ✓ Visibility, Filling
- Trending
 - ✓ Creating & Accessing Real-time
 - ✓ Creating & Accessing Historical Trends
- Creating and Accessing Alarms
- Creating and Accessing Events
- Writing logic through script
- Window script
- Application script
- Writing script on industrial application
- Bottle filling plant
- Process automation plant
- Connectivity with the different hardware
 - ✓ Communication protocols
 - ✓ Communication with PLC
 - ✓ Connectivity between software
- Troubleshooting the application
 - ✓ Fault diagnostics and error handling
 - ✓ Sorting communication problems

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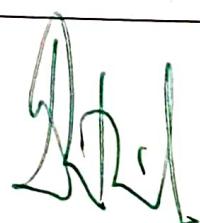


Programmable Logic Controllers (PLC) –Delta PLC

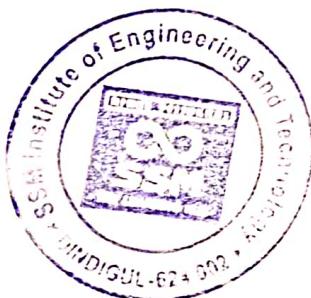
Topics Covered

Programming / Project Development

| Topic | Mode |
|--|--------------------------------------|
| ➤ SIMATIC S7 PLC Functionalities ➤ Setting up Delta PLC hardware | Practical on PLC's |
| ➤ Programming software <ul style="list-style-type: none"> ▪ PLC program structure in delta ▪ The instruction set of WPL Soft ▪ Parameters, functions and tools | Practical – PLC programming software |
| ➤ CPU configuration, setting parameters and application of several I/O cards using the software | Practical – PLC programming software |
| ➤ Addressing Concepts in Delta PLC's ➤ Detail information about Organizational Blocks, Function Block, Functions, System Function Block, System Function, Data block | Practical – PLC programming software |
| ➤ Creating and Editing PLC programs ➤ Introduction to Bit Byte and Word Concept | Practical – PLC programming software |
| ➤ Programming instructions arithmetic and logical <ul style="list-style-type: none"> ▪ Load /and /or/out / and Read / Write ▪ Compare / Add / Sub /And /Or – Blocks ▪ Leading edge / trailing edge instructions ▪ MOVE block application | Practical – PLC programming software |
| ➤ Programming instructions arithmetic and logical <ul style="list-style-type: none"> ▪ Timer Blocks programming ▪ Counter Block programming ▪ Comment functions ▪ Comments in the PLC programs ▪ Handling Analog I/Ps | Practical – PLC programming software |



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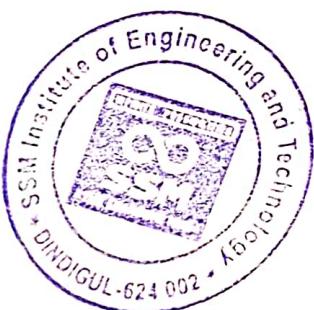
VFD – Variable Frequency Drives

Variable Speed Drives

- Introduction to Ac Drives
- Selection Criteria Of Drives
- Configuration Of Parameter
- Remote And Local Operation
- Communication With PLC/SCADA software
- Troubleshooting
- Case Study And Different Applications Of Drives In The Industry



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Dindigul – Palani Highway, Dindigul 624 002



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Value added Course Summary (2020-2021)

Course Name : Industrial Automation

Course Duration : 40 Hours

Year offered : IV year students -2020-2021

Course Instructors : Mr. D. Manoj
Assistant professor /EEE

Course Outcome: The student would be able to apply the tools and techniques of industrial Automation and able to program and control the PLC platform.

Course Type : Self Framed / Collaboration with Industry

Assessment Mode

Attendance : 40 Hours

Number of participants : 32

Scheme of Exam : MCQ offline



Course Coordinator

HoD

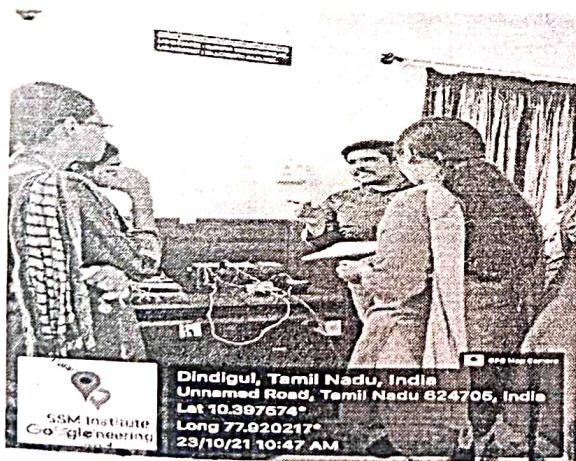
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Tiruchirappalli, Tamil Nadu, India - 624 002

SSM Institute of Engineering and Technology, Dindigul -02.
Department of Electrical and Electronics Engineering

Value added course on Industrial automation

23.10.2021

The value-added course on Industrial automation was organized and conducted by the Department of EEE for IV year students from 18.10.2021 to 23.10.21. Totally 32 students attended this course. The course covered topics including Operation and Maintenance of PLC ,SCADA, Fault detection and error handling, variable Speed Drives, etc. The resource persons is Er.K.Ilanchezian,Technical Manager,Shree Technologies pvt. Ltd, Coimbatore, Assessment test was conducted and feedback from students collected.

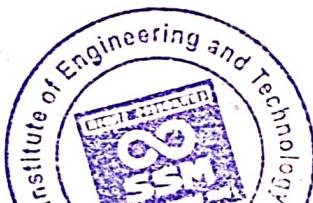


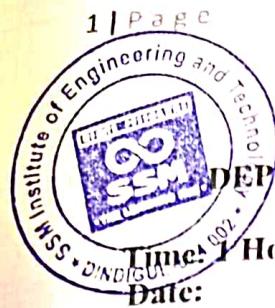
Faculty Incharge

HoD/EEE

Principal

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Mani Road, Dindigul - 624 002.





Time: 100²
Hours
Date:

**SHREE TECHNOLOGIES A FRANCHISEES OF
PROLIFIC SYSTEMS AND TECHNOLOGIES P LTD,
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
5DAYS PLC & SCADA TRAINING PROGRAM**

maximum: 50 marks

PART-A (20 X 1=20MARKS)

1. Which Programming Language is commonly used in PLC?

- a) C++
- b) Ladder
- c) C
- d) Java

2. Which One of the Following Communication Cable is used in PLC?

- a) DH-485
- b) RS-485
- c) RS-232
- d) RJ45

3. "Download" describes Transfer from

- a) PC to PLC
- b) PLC to PC
- c) PC to PC
- d) PLC to PLC

4. "Upload" describes Transfer from

- a) PC to PLC
- b) PLC to PC
- c) PC to PC
- d) PLC to PLC

5. Which one of the following is not associated with AB PLC Timer?

- a) Preset
- b) Accumulator
- c) Binary Memory
- d) Time Base

6. Which Coil Permits the Supply when it is in ON state.

- a) Normally OPEN
- b) Normally CLOSE

7. Which one of the following belongs to Input address in AB PLC?

- a) I0.0
- b) I: 0/0
- c) X0
- d) 1I

8. Which one of the following belongs to Output address in Delta PLC?

- a) O:0/0
- b) Y:0.0
- c) Y0

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Principal

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Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002.

9. Which one of the following belongs to Timer address in AB PLC?

- a) T0
- b) T4:0
- c) R0
- d) D0

10. Which Coil Doesn't Permits the Supply when it is in ON state.

- a) Normally OPEN
- b) Normally CLOSE

11. Which of the following Bit Activates When the Time delay reach Preset Value?

- a) Done Bit
- b) Timer Timing Bit
- c) Enable Bit

12. Accumulator is Used to in Timer.

- a) Display the Changing values
- b) Set the Time Value
- c) Choosing the time base
- d) Address Assigning

13. Which One of the Following is Used to "Set the Time Value" in timer ?

- a) Preset
- b) Accumulator
- c) Time Base
- d) Address

14. An example of discrete (digital) control is:

- a) Varying the volume of a music system
- b) Turning a lamp ON or OFF
- c) Varying the brightness of a lamp
- d) Controlling the speed of a motor

15. One of the following is an input device.

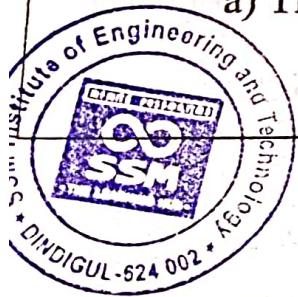
- a) Motor
- b) Light
- c) Valve
- d) Sensor

16. PLC stands for programmable logo controller.

- a) True
- b) False
- c) None of the above

17. In a PLC "I:0/0" is used to denote output and "O:0/0" is used for input.

- a) True
- b) False
- c) None of the above



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www.ssm.edu.in

18. Lights, lamps, motors are connected to:

- a) Analog output
- b) Digital output
- c) Analog input
- d) Digital input

19. What is mean by SCADA?

20. Which software used in scada?

PART-B (5 X 2= 10 MARKS)

(Answer all Questions)

1. Draw the Ladder Diagram for EX-OR Gate?
2. Draw the Ladder Diagram for AND Gate?
3. Draw the Ladder Diagram For DOL Starter?
4. List the Name of Programming Software, Communication Software and Simulation Software for Allen Bradley PLC?
5. Difference between Electrical and Electronics?

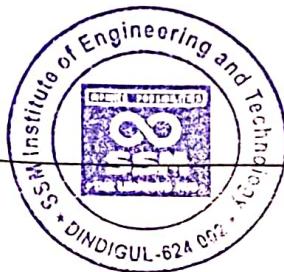
PART-C (2 X 10=20MARKS)

(Answer all Questions)

1. What is meaning by Automation and Its Types and Its Application?
2. a) If a Switch is Pressed , Light A and Light B ON.
If the Switch is Released, Light A off, Light B ON.
- b) If a switch is ON, after 5 sec. lamp A- On,
After 10 sec. Lamp B- On, After 15 sec. Lamp C-On.



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SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

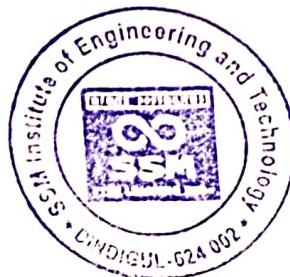
Sindalagundu post, Dindigul-624002.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ASSESSMENT TEST RESULT VALUE ADDED COURSE ON INDUSTRIAL AUTOMATION

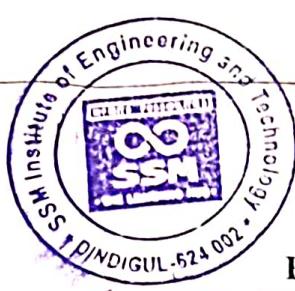
| SL.No | Reg.No | Number of Student | Total Marks(50) |
|-------|--------------|-----------------------|-----------------|
| 1 | 922118105001 | AFRIN S | 36 |
| 2 | 922118105002 | ALAQUF A | 37 |
| 3 | 922118105003 | ARAVINTH M | 34 |
| 4 | 922118105004 | ARUN KUMAR P | 39 |
| 5 | 922118105005 | ASMITHA B | 25 |
| 6 | 922118105006 | BALAKUMARAN A S | 34 |
| 7 | 922118105007 | DHANALAKSHMI MP | 40 |
| 8 | 922118105008 | GEETHANJALI S | 34 |
| 9 | 922118105009 | GOPI C | 35 |
| 10 | 922118105010 | GOWRI M | 38 |
| 11 | 922118105011 | GUNASEELAN A | 44 |
| 12 | 922118105014 | MONESH P | 5 |
| 13 | 922118105015 | NAGAMUTHUPANDI A | 40 |
| 14 | 922118105016 | NIYAZ AHAMED K | 44 |
| 15 | 922118105017 | PADMANABHAN D | 35 |
| 16 | 922118105018 | POOJA R | 34 |
| 17 | 922118105020 | PRAVEEN K | 35 |
| 18 | 922118105021 | RAJ KUMAR K | 12 |
| 19 | 922118105022 | RAM KUMAR P | 31 |
| 20 | 922118105023 | SABAPATHI S | 3 |
| 21 | 922118105024 | SABARIVASAN T | 43 |
| 22 | 922118105026 | SHANKAR GANESH G | 10 |
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| 31 | 922118105306 | NAVANEETHA PANDIAN P | 12 |
| 32 | 922118105307 | PRAVINKANTH K | 17 |

Faculty Incharge



HoD/EEE

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SHREE TECHNOLOGIES A FRANCHISEES OF
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
5DAYS PLC & SCADA TRAINING PROGRAM

Time: 1 Hours

maximum: 50 marks

Date:

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7. Which one of the following belongs to Input address in AB PLC?

- a) I0.0 b) I: 0/0 c) X0 d) I1

8. Which one of the following belongs to Output address in Delta PLC?

- a) O:0/0 b) Y:0.0 c) Y0 d) I0

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c) Varying the brightness of a lamp

b) Turning a lamp ON

d) Controlling the speed

15. One of the following is an input device.

a) Motor

b) Light

c) Valve

d) Sensor

16. PLC stands for programmable logo controller.

a) True

b) False

c) None of the above

17. In a PLC "I:0/0" is used to denote output and "O:0/0" is used for input

a) True

b) False

c) None of the above



18. Lights, lamps, motors are connected to:

- a) Analog output b) Digital output c) Analog input d) Digital input

19. What is mean by SCADA?

~~SCAD~~ Means. Supervisory Control And Data Acquisition system.

20. Which software used in scada?

~~Turbo C~~

PART-B (5 X 2= 10 MARKS)

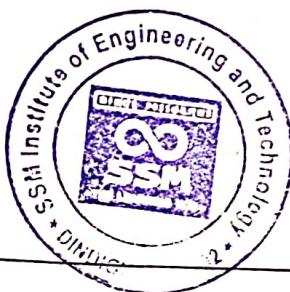
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PART-C (2 X 10=20MARKS)

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 Palani Road, Dindigul - 624 002

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AFRIN S

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
5DAYS PLC & SCADA TRAINING PROGRAM

Time: 1 Hours
Date:

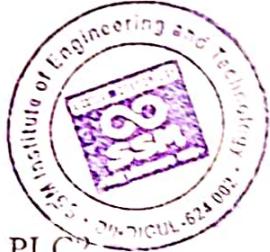
maximum: 50 marks

PART-A (20 X 1=20MARKS)

36

1. Which Programming Language is commonly used in PLC?

- a) C++ b) Ladder c) C d) Java



2. Which One of the Following Communication Cable is used in PLC?

- a) DH-485 b) RS-485 c) RS-232 d) RJ45

3. "Download" describes Transfer from

- a) PC to PLC b) PLC to PC c) PC to PC d) PLC to PLC

4. "Upload" describes Transfer from

- a) PC to PLC b) PLC to PC c) PC to PC d) PLC to PLC

5. Which one of the following is not associated with AB PLC Timer?

- a) Preset b) Accumulator c) Binary Memory d) Time Base

6. Which Coil Permits the Supply when it is in ON state.

- a) Normally OPEN b) Normally CLOSE

7. Which one of the following belongs to Input address in AB PLC?

- a) I0.0 b) I: 0/0 c) X0 d) I1

8. Which one of the following belongs to Output address in Delta PLC?

- a) O:0/0 b) Y:0.0 c) Y0

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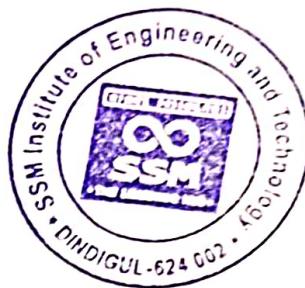
Value added course on Industrial Automation

October 18-23, 2021

STUDENT FEEDBACK FORM

Year/Sem: IV / 07

Date: 23/10/2021



Dear Student,

Thank you for your participation **Value added course on Industrial Automation**. We would like to hear from you - areas that you find useful and areas that you think we can do better. Your feedback will help us evaluate the effectiveness of this program and allow us to make improvements in future.

| S.No | Criteria | Rating | | | | |
|------|---------------------------------------|-----------|-----------|------|------|--------------|
| | | Excellent | Very good | Good | Fair | Satisfactory |
| 1 | Course content | ✓ | | | | |
| 2 | Skill development | | ✓ | | | |
| 3 | Motivation | ✓ | | | | |
| 4 | Regularity and punctuality of trainer | | | | | |
| 5 | Coverage of syllabus | | ✓ | | | |
| 6 | Interaction | ✓ | | | | |
| 7 | Individual attention | | ✓ | | | |
| 8 | Outcome | | ✓ | | | |

Feel free to give **QUALITATIVE** comments too

.....It....is....useful....for....our....Career.....
.....communication....is....good.....

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Principal

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Signature of the student with name M.P. Dharalakshmi

M.P. Dharalakshmi



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| 7 | Individual attention | / | | | | |
| 8 | Outcome | / | | | | |

Feel free to give **QUALITATIVE** comments too

.....i have....attend....5....days....internship....it is very.....
.....useful....to....gain....knowledge.....

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Principal

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Agrumayalan (A. Grunayalan)

Signature of the student with name



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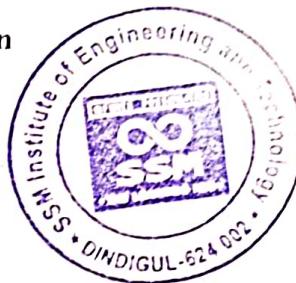
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October 18-23, 2021

STUDENT FEEDBACK FORM

Year/Sem: IV / VII

Date: 23/10/21



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| 6 | Interaction | ✓ | | | | |
| 7 | Individual attention | | ✓ | | | |
| 8 | Outcome | ✓ | | | | |

Feel free to give **QUALITATIVE** comments too
Very good, Excellent teaching

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K. Vigneshwaran
 Signature of the student with name

K. VIGNESHWARAN.



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Department of Electrical and Electronics Engineering

Value added course on Industrial Automation

October 18-23, 2021

STUDENT FEEDBACK FORM

Year/Sem: IVth Year / 7th Sem

Date: 23.10.21



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Praveen.K
Signature of the student with name

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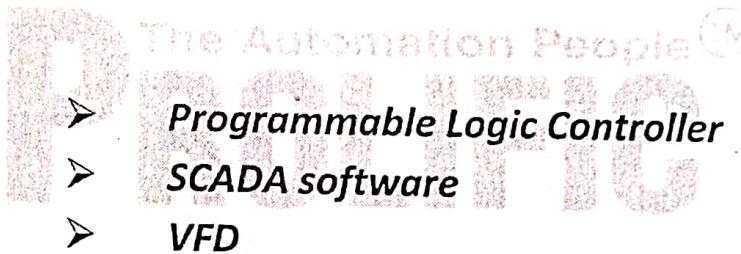
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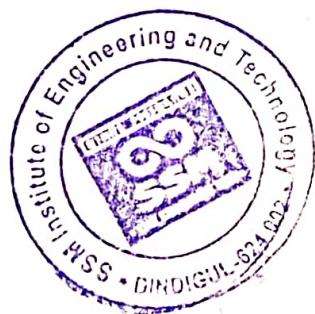
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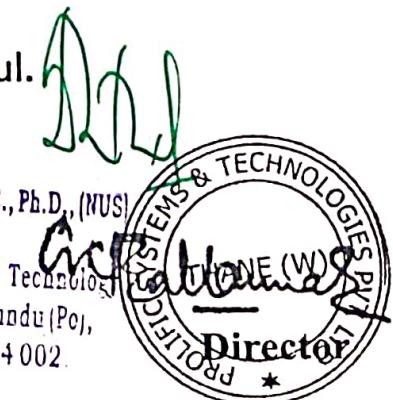
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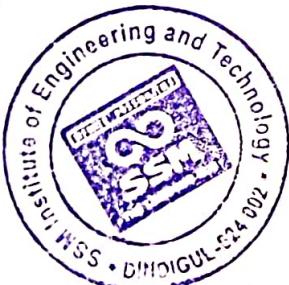
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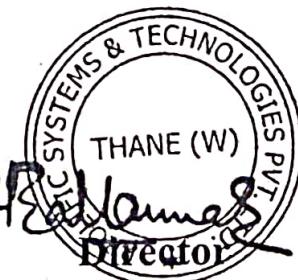


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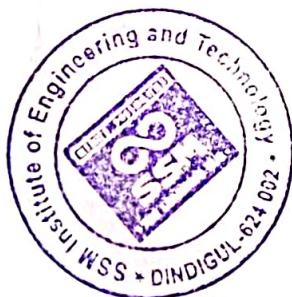
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