



SRI VENKATESWARA

COLLEGE OF ENGINEERING AND TECHNOLOGY

Thirupachur-631203, Thiruvallur TK & DT
Approved by AICTE New Delhi & Affiliated to Anna University, Chennai
(A Telugu Minority Institution)

22EEEVAC01 – INDUSTRIAL AUTOMATION USING PLC AND SCADA EVENT REPORT

Name of the Course: INDUSTRIAL AUTOMATION USING PLC AND SCADA

Name of the Instructor: 1. Dr. M. Sivasubramanian, Associate Professor /EEE/ SVCET
2. Mrs. S. Geetha Assistant Professor /EEE/SVCET.

Year and Branch: II,III,IV,& ME-PED-ELECTRICAL AND ELECTRONICS ENGINEERING

Duration of Course: 32 Hrs (17.10.2022 to 22.10.2022)

SUMMARY OF THE EVENT:

The Course was inaugurated on 17.10.2022 at 8.30 am by our respectable Principal and HOD. As per the Course plan session was started and went smooth for the Remaining days. On the last day 22.10.2022 by 2.30 pm the course was completed successfully.

During the Six Days of the program Students were participated with enthusiasm and they finally gained Knowledge on “INDUSTRIAL AUTOMATION USING PLC AND SCADA”

ASSESSMENT MODE:

No of Students Enrolled: 78

Scheme of Exam: Offline

No of Students appeared: 78

No of Students Passed:78

Date of Exam: 22.10.2022

OUTCOME:

After the completion of the course the students will be able to understand develop block diagram of PLC and explain the working, the students will be able to understand develop an automation system that can efficiently and effectively monitor and control industrial processes.


COORDINATOR

(Mr. D. Siva Kumar)




HOD /EEE

(Mr. M. Namachivayam)

PRINCIPAL

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Thirupachur, Thiruvallur - 631 203

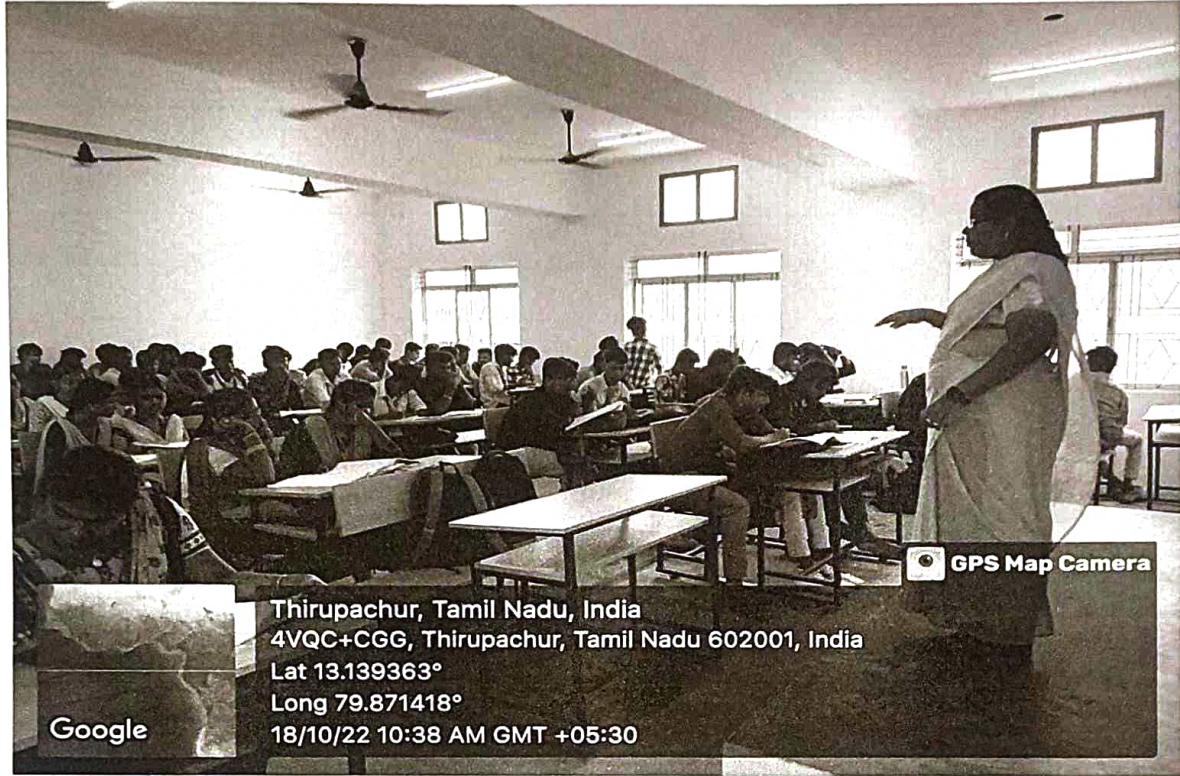


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22EEEVAC01 – INDUSTRIAL AUTOMATION USING PLC AND SCADA



Value Added Course on “INDUSTRIAL AUTOMATION USING PLC AND SCADA” Handled by Dr. M. Sivasubramanian, Associate Professor /EEE/ SVCET and Mrs. S. Geetha Assistant Professor /EEE/SVCET.



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REQUEST LETTER

From

Mr. M. Namachivayam
HOD /EEE
SVCET
Thirupachur.

To,

The Principal
SVCET
Thirupachur

Permitted
S. Palani

Respected sir,

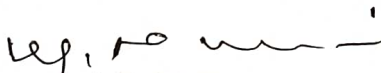
Sub: Requesting permission to conduct a 6 Days value added course –Reg

As the Head of **Electrical and Electronics Engineering** Department, I would like to request your support and permission to conduct Training Program on “**Industrial Automation using PLC and SCADA**” in our department. There is a need that has been identified of keeping the students up to date with the new technologies. Most students would not have knowledge on this area which is not available in our curriculum. So, there is need for this program to challenge the industry opportunities.


The dates for the Training program have been fixed. The Training will start on 17.10.2022 and end on 22.10.2022 (32Hrs). Will be handled by Dr. M. Sivasubramanian, Associate Professor /EEE/ SVCET and Mrs. S. Geetha Assistant Professor /EEE/SVCET.

I kindly request your assistance in providing Tea and snack for the participants (students). Please find the attached Invitation, circular to students, and a presentation highlighting the key areas that will be focused in the Training program.

Thanking You


HOD /EEE
(Mr. M. Namachivayam)




PRINCIPAL
(Dr. S. Palani)

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07.10.2022

CIRCULAR


The department of Electrical and Electronics Engineering will be conducting value added course on “**Industrial Automation using PLC and SCADA**” from 17.10.2022 to 22.10.2022 (32 Hrs). It is proposed to keep the students up to date with the new technologies.

All the students are requested to participate actively, certificate will be provided for the enrolled Participants.

All the interested candidates should enroll their names to Mrs. V. Nandhini Priya Assistant Professor, Department of Electrical and Electronics Engineering on or before **14.10.2022**.


HOD /EEE
(Mr. M. Namachivayam)




PRINCIPAL
(Dr. S. Palani)


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
"INDUSTRIAL AUTOMATION USING PLC AND SCADA"

Date : 17.10.2022 - 22.10.2022

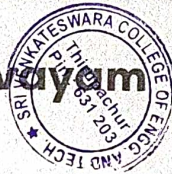


RESOURCE PERSON

1. Dr.M.Siva Subramaniam/AssotProf / SVCET
2. Mrs. S. Geetha /Asst Prof / SVCET

Mr. M. Namachivayam

HOD / EEE



(Signature)

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Dr.S. Palani

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RESOURCE PERSON PROFILE


Resource person:1

Name : Dr. M. Sivasubramanian
Designation : Associate Professor
Department : EEE
Organization : Sri Venkateswara College of Engineering and Technology
Phone Number : 8754538159
Email.ID : shivam.annauniversity@gmail.com
Qualification : ME, Ph.D
Experience : 17 years

Resource person:2

Name : Mrs. S. Geetha
Designation : Assistant Professor
Department : EEE
Organization : Sri Venkateswara College of Engineering and Technology
Phone Number : 8220767853
Email.ID : geethu22eee@gmail.com
Qualification : ME
Experience : 7 years




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22EEEVAC01 – INDUSTRIAL AUTOMATION USING PLC AND SCADA

COURSE CONTENT

OBJECTIVES

- To develop an automation system that can efficiently and effectively monitor and control industrial processes.

MODULE 1: INTRODUCTION

Introduction about industrial automation History of industrial automation Need of automations in industries Field Instruments Types and working of field devices Automation using relays

MODULE - II : PLC

Introduction about Programmable Logic Controller History of PLC Architecture of PLC CPU IO Modules Power Supply and Communications Input and Output Devices Need of PLC for Industrial Automation Ladder logic diagram Structure Interfacing the field component to PLC Sink and Source type wiring Need of push button for industrial automation Importance of latching and unlatching Interlocking & Trip concept Types of interlocking Need of interlocking Timers Types of timers Example Problem for automation using timers Need for counters Types of Example Problems

MODULE - III : SCADA

Introduction about SCADA. Fundamental Principles of Modern SCADA Systems advantages and Disadvantages SCADA Hardware and Software Remote Terminal Unit (RTU) RTU Configuration RTU Hardware Modules The Master Station Features and Functions Typical Structure of Master Station Master Station Software Local Area Network & Modems OSI Layer Central Site Computer Facilities Emerging New Technologies in SCADA System Rockwell Automation Allen Bradley SCADA Project Creation in Factory Talk Display Tags Library Run Time Security Working with Properties Animation Alarm Setup Trend Language Switching Interfacing PLC to SCADA.

OUTCOMES:

- Develop block diagram of PLC and explain the working.
- Classify input and output interfacing devices with PLC.

COORDINATOR

(Mr. D. Siva Kumar)



HOD /EEE

(Mr. M. Namachivayam)

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22EEEVAC01 – INDUSTRIAL AUTOMATION USING PLC AND SCADA COURSE SCHEDULE

6 Days Training Schedule – INDUSTRIAL AUTOMATION USING PLC AND SCADA			
Day & Date	Session & Time	Speaker Name	Session Topics
Day 1 & 17.10.2022	8.30 am to 10.30am	Dr. M. Sivasubramanian, Asso .Prof / SVCET	Introduction about industrial automation
	10.45 am to 12.45 pm	Mrs. S. Geetha Asst Prof / SVCET	Types and working of field devices Automation using relays
	1.30 pm to 3.30pm	Dr. M. Sivasubramanian, Asso .Prof / SVCET	Introduction about Programmable Logic Controller History of PLC Architecture of PLC
Day 2 & 18.10.2022	8.30 am to 10.30am	Mrs. S. Geetha Asst Prof / SVCET	CPU IO Modules Power Supply and Communications Input and Output Devices
	10.45 am to 12.45 pm	Dr. M. Sivasubramanian, Asso .Prof / SVCET	Need of PLC for Industrial Automation Ladder logic diagram Structure Interfacing the field component to PLC Sink and Source
	1.30 pm to 3.30pm	Mrs. S. Geetha Asst Prof / SVCET	latching and unlatching Interlocking & Trip concept Types of interlocking
Day 3 & 19.10.2022	8.30 am to 10.30am	Mrs. S. Geetha Asst Prof / SVCET	Timers Types of timers Example Problem for automation using timers Need for counters Types of Example Problems
	10.45 am to 12.45 pm	Dr. M. Sivasubramanian, Asso .Prof / SVCET	Introduction about SCADA
	1.30 pm to 3.30pm	Mrs. S. Geetha Asst Prof / SVCET	SCADA Hardware and Software Remote Terminal Unit (RTU) RTU Configuration RTU Hardware Modules
Day 4 & 20.10.2022	8.30 am to 10.30am	Dr. M. Sivasubramanian, Asso .Prof / SVCET	The Master Station Features and Functions Typical Structure of Master Station Master Station Software Local Area Network
	10.45 am to 12.45 pm	Mrs. S. Geetha Asst Prof / SVCET	Modems OSI Layer Central Site Computer Facilities Emerging New Technologies in SCADA System
Day 5 & 21.10.2022	8.30 am to 10.30am	Mrs. S. Geetha Asst Prof / SVCET	System Rockwell Automation Allen Bradley SCADA Project
	10.45 am to 12.45 pm	Dr. M. Sivasubramanian, Asso .Prof / SVCET	Run Time Security Working with Properties
	1.30 pm to 2.30pm	Mrs. S. Geetha Asst Prof / SVCET	Animation Alarm Setup Trend Language
Day 6 & 22.10.2022	8.30 am to 10.30am	Dr. M. Sivasubramanian, Asso .Prof / SVCET	Switching Interfacing PLC to SCADA .
	10.45 am to 12.45 pm	Mrs. S. Geetha Asst Prof / SVCET	Hardware Modules
	1.30 pm to 2.30pm	Dr. M. Sivasubramanian, Asso .Prof / SVCET	Interfacing PLC to SCADA & Test

COORDINATOR

(Mr. D. Siva Kumar)



HOD/EEE

(Mr. M. Namachivayam)

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22EEEVAC01 – INDUSTRIAL AUTOMATION USING PLC AND SCADA

Course Code	22EEEVAC01
Name of the Course	INDUSTRIAL AUTOMATION USING PLC AND SCADA
Duration of the Course	32 HOURS
Academic Year	2022-23
Period of the Course	17.10.2022-22.10.2022

LIST OF STUDENTS ENROLLED

S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	SIGNATURE
1	II	112421105320	GAYATHRI.V	
2	II	112421105321	GNANAGURUDOSS. M	
3	II	112421105323	HARIHARAN.R	
4	II	112421105324	INBASELVAN.D	
5	II	112421105325	JOHN WESLY. S	
6	II	112421105326	KAMESH. K	
7	II	112421105327	KARTHICK.K	
8	II	112421105328	KISHORE. L	
9	II	112421105329	KOTTESSWARAN.S	
10	II	112421105330	NARESH.M	
11	II	112421105331	PARANTHAMAN.S	
12	II	112421105332	PARTHIBAN.R	
13	II	112421105333	PAVITHRA. K	
14	II	112421105334	PRABHU. M	
15	II	112421105335	PRASANTH. M	
16	II	112421105336	PRAVEEN.M	



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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	SIGNATURE
17	II	112421105337	PUSHPARAJ. M	Pushparaj
18	II	112421105338	RAJA PRIYA. K	Rajee P
19	II	112421105340	RAJKUMAR. N	N. Raj.
20	II	112421105342	SARAVANAN. T	Saravanan. T
21	II	112421105343	SATHISH KUMAR. B	Sathish
22	II	112421105344	SENTHAMIZH. I	Senthamizh. I
23	II	112421105345	SUBASH CHANDRABOSE. E	Subash. E
24	II	112421105346	THARUN KUMAR. V	Tharun
25	II	112421105347	VARUNRAJ. N	Varun Raj
26	II	112421105348	VIGNESH. M	Vignesh
27	II	112421105349	VIJAY. R	Vijay
28	II	112421105350	VISHNU. S	Vishnu
29	II	112421105351	YOUNGANDERAN. R	Youngand
30	III	112420105319	FRANKLIN JOSEPH. D. R.	Franklin
31	III	112420105320	GOPIKRISHNAN. B	Gopi
32	III	112420105321	GOWTHAMAN. M	Gowthaman
33	III	112420105322	JAYAKUMAR. S	Jayakumar
34	III	112420105323	JEEVANANDHAM. M	Jeevanandham
35	III	112420105324	JUSTIN. J	Justin
36	III	112420105325	KISHORE. V	Kishore
37	III	112420105326	KODHANDAN. M. D	Kodhandan
38	III	112420105328	LOKESH. S	Lokesh
39	III	112420105329	MANIKANDAN. G	Manikandan G.
40	III	112420105330	MANIKANDAN. P	Manikandan



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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	SIGNATURE
41	III	112420105331	MANIVANNAN.T	Manivannan.T
42	III	112420105332	MONISHA.P	Monisha.P
43	III	112420105333	NARENDRAN.M.G	Narendran
44	III	112420105334	NAVEEN KUMAR.C	Naveen
45	III	112420105335	NITHISH.M	Nithish
46	III	112420105336	PARTHASARATHY.P	Parthasarathy
47	III	112420105337	PARTHIBAN.V	Parthiban
48	III	112420105338	PAVITHRA.R	Pavithra
49	III	112420105339	PUGAZHENTHI.K	Pugazhathi
50	III	112420105340	RAGHUL.S	Raghu
51	III	112420105341	RAGHUL.V	Raghu
52	III	112420105342	RAJESH.D	Rajesh
53	III	112420105343	RAMKUMAR.R	Ramkumar
54	III	112420105345	SAKTHIVEL.S	Sakthivel
55	III	112420105346	SAMPATHRAJ.R	Sampathraj
56	III	112420105347	SANJAI.M	Sanjai
57	III	112420105348	SANJAY GOKUL.S	Sanjay Gokul
58	III	112420105349	SARAN.R	Saran
59	III	112420105350	SARANRAJ.M	Saranraj
60	III	112420105351	SATHISH.C	Sathish
61	III	112420105352	SELVA.B	Selva
62	III	112420105353	SELVA GANAPATHY.M	Selva Ganapathy
63	III	112420105354	SILAMBARASAN.M	Silambarasan
64		112420105356	SIVA KUMAR.V	Siva Kumar



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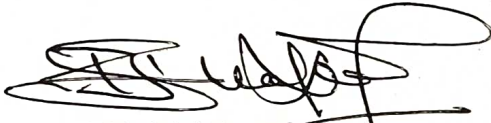


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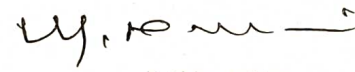
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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	SIGNATURE
65	III	112420105357	TAMILANBAN.N	Tamilanban.N
66	III	112420105358	TAMILARASU.M	Tamilarasu.M
67	III	112420105360	VIGNESHWARAN.G	Vigneshwaran.G
68	III	112420105361	VIJAY.L	Vijay.L
69	III	112420105362	VIGNESH.N	Vignesh.N
70	III	112420105363	ASHOK KUMAR.G	Ashok Kumar.G
71	IV	112419105006	RAKESHKUMAR J	Rakeshkumar.J
72	IV	112419105007	SNEHA N	Sneha N
73	IV	112419105008	SONIYA K	Soniya K
74	IV	112419105009	SRIDEVI K	Sridevi K
75	IV	112419105010	SUNILKUMAR B	Sunilkumar.B
76	ME-PED I	112422415001	MATHIYAZAGAN.G	Mathiyazagan.G
77	ME-PED I	112422415002	SAKTHIVEL.S	Sakthivel.S
78	ME-PED I	112422415004	SUGADEVAN.R	Sugadevan.R


COORDINATOR
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ATTENDANCE

S.N O	YEAR	REGISTER NUMBER	NAME OF STUDENTS	17.10.22		18.10.22		19.10.22		20.10.22		21.10.22		22.10.22		TOTAL HOURS (32)
				6 HOURS		6 HOURS		6 HOURS		4 HOURS		5 HOURS		5 HOURS		
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
1	II	112421105320	GAYATHRI.V	P	P	P	P	P	P	P	P	P	P	P	P	32
2	II	112421105321	GNANAGURUDOSS.M	P	P	P	P	P	P	P	P	P	P	P	P	32
3	II	112421105323	HARIHARAN.R	P	P	P	P	P	P	P	P	P	P	P	P	32
4	II	112421105324	INBASELVAN.D	P	P	P	P	P	P	P	P	P	P	P	P	32
5	II	112421105325	JOHN WESLY. S	P	P	P	P	P	P	P	P	P	P	P	P	32
6	II	112421105326	KAMESH. K	P	P	P	P	P	P	P	P	P	P	P	P	32
7	II	112421105327	KARTHICK.K	P	P	P	P	P	P	P	P	P	P	P	P	32
8	II	112421105328	KISHORE. L	P	P	P	P	P	P	P	P	P	P	P	P	32
9	II	112421105329	KOTTESSWARAN.S	P	P	P	P	P	P	P	P	P	P	P	P	32
10	II	112421105330	NARESH.M	P	P	P	P	P	P	P	P	P	P	P	P	32
11	II	112421105331	PARANTHAMAN.S	P	P	P	P	P	P	P	P	P	P	P	P	32
12	II	112421105332	PARTHIBAN.R	P	P	P	P	P	P	P	P	P	P	P	P	32
13	II	112421105333	PAVITHRA. K	P	P	P	P	P	P	P	P	P	P	P	P	32



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				6 HOURS		6 HOURS		6 HOURS		4 HOURS		5 HOURS		5 HOURS		
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
14	II	112421105334	PRABHU. M	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	32	
15	II	112421105335	PRASANTH. M	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	32	
16	II	112421105336	PRAVEEN.M	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	32	
17	II	112421105337	PUSHPARAJ. M	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	32	
18	II	112421105338	RAJA PRIYA. K	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	32	
19	II	112421105340	RAJKUMAR. N	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	32	
20	II	112421105342	SARAVANAN.T	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	32	
21	II	112421105343	SATHISH KUMAR. B	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	32	
22	II	112421105344	SENTHAMIZH. I	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	32	
23	II	112421105345	SUBASH CHANDRABOSE. E	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	32	
24	II	112421105346	THARUN KUMAR. V	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	32	
25	II	112421105347	VARUNRAJ.N	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	32	
26	II	112421105348	VIGNESH. M	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	32	
27	II	112421105349	VIJAY. R	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	32	
28	II	112421105350	VISHNU.S	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	32	
29	II	112421105351	YOUNGANDERAN. R	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	32	
30	III	112420105319	FRANKLIN JOSEPH.D.R.	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	32	
31	III	112420105320	GOPIKRISHNAN.B	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	32	
32	III	112420105321	GOWTHAMAN.M	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	32	
33	III	112420105322	JAYAKUMAR.S	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	32	
34	III	112420105323	JEEVANANDHAM. M	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	32	



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S.N O	YEAR	REGISTER NUMBER	NAME OF STUDENTS	17.10.22		18.10.22		19.10.22		20.10.22		21.10.22		22.10.22		TOTAL HOURS (32)
				6 HOURS		6 HOURS		6 HOURS		4 HOURS		5 HOURS		5 HOURS		
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
35	III	112420105324	JUSTIN.J	J	J	J	J	J	J	J	J	J	J	J	J	32
36	III	112420105325	KISHORE.V	K	K	K	K	K	K	K	K	K	K	K	K	32
37	III	112420105326	KODHANDAN.M.D	K	K	K	K	K	K	K	K	K	K	K	K	32
38	III	112420105328	LOKESH.S	L	L	L	L	L	L	L	L	L	L	L	L	32
39	III	112420105329	MANIKANDAN.G	M	M	M	M	M	M	M	M	M	M	M	M	32
40	III	112420105330	MANIKANDAN.P	M	M	M	M	M	M	M	M	M	M	M	M	32
41	III	112420105331	MANIVANNAN.T	M	M	M	M	M	M	M	M	M	M	M	M	32
42	III	112420105332	MONISHA.P	M	M	M	M	M	M	M	M	M	M	M	M	32
43	III	112420105333	NARENDRAN.M.G	N	N	N	N	N	N	N	N	N	N	N	N	32
44	III	112420105334	NAVEEN KUMAR.C	N	N	N	N	N	N	N	N	N	N	N	N	32
45	III	112420105335	NITHISH.M	N	N	N	N	N	N	N	N	N	N	N	N	32
46	III	112420105336	PARTHASARATHY.P	P	P	P	P	P	P	P	P	P	P	P	P	32
47	III	112420105337	PARTHIBAN.V	P	P	P	P	P	P	P	P	P	P	P	P	32
48	III	112420105338	PAVITHRA.R	P	P	P	P	P	P	P	P	P	P	P	P	32
49	III	112420105339	PUGAZHENTHI.K	P	P	P	P	P	P	P	P	P	P	P	P	32
50	III	112420105340	RAGHUL.S	R	R	R	R	R	R	R	R	R	R	R	R	32
51	III	112420105341	RAGHUL.V	R	R	R	R	R	R	R	R	R	R	R	R	32
52	III	112420105342	RAJESH.D	R	R	R	R	R	R	R	R	R	R	R	R	32
53	III	112420105343	RAMKUMAR.R	R	R	R	R	R	R	R	R	R	R	R	R	32
54	III	112420105345	SAKTHIVEL.S	S	S	S	S	S	S	S	S	S	S	S	S	32
55	III	112420105346	SAMPATHRAJ.R	S	S	S	S	S	S	S	S	S	S	S	S	32



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				6 HOURS		6 HOURS		6 HOURS		4 HOURS		5 HOURS		5 HOURS		
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
56	III	112420105347	SANJAI.M	Saj	Saj	Saj	Saj	Saj	Saj	Saj	Saj	Saj	Saj	Saj	32	
57	III	112420105348	SANJAY GOKUL.S	Saj	Saj	Saj	Saj	Saj	Saj	Saj	Saj	Saj	Saj	Saj	32	
58	III	112420105349	SARAN.R	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	32	
59	III	112420105350	SARANRAJ.M	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	32	
60	III	112420105351	SATHISH.C	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	32	
61	III	112420105352	SELVA.B	Sel	Sel	Sel	Sel	Sel	Sel	Sel	Sel	Sel	Sel	Sel	32	
62	III	112420105353	SELVA GANAPATHY.M	Sel	Sel	Sel	Sel	Sel	Sel	Sel	Sel	Sel	Sel	Sel	32	
63	III	112420105354	SILAMBARASAN.M	Sil	Sil	Sil	Sil	Sil	Sil	Sil	Sil	Sil	Sil	Sil	32	
64	III	112420105356	SIVA KUMAR.V	Siv	Siv	Siv	Siv	Siv	Siv	Siv	Siv	Siv	Siv	Siv	32	
65	III	112420105357	TAMILANBAN.N	Tam	Tam	Tam	Tam	Tam	Tam	Tam	Tam	Tam	Tam	Tam	32	
66	III	112420105358	TAMILARASU.M	Tam	Tam	Tam	Tam	Tam	Tam	Tam	Tam	Tam	Tam	Tam	32	
67	III	112420105360	VIGNESHWARAN.G	Vig	Vig	Vig	Vig	Vig	Vig	Vig	Vig	Vig	Vig	Vig	32	
68	III	112420105361	VIJAY.L	Vij	Vij	Vij	Vij	Vij	Vij	Vij	Vij	Vij	Vij	Vij	32	
69	III	112420105362	VIGNESH.N	Vig	Vig	Vig	Vig	Vig	Vig	Vig	Vig	Vig	Vig	Vig	32	
70	III	112420105363	ASHOK KUMAR.G	Ash	Ash	Ash	Ash	Ash	Ash	Ash	Ash	Ash	Ash	Ash	32	
71	IV	112419105006	RAKESHKUMAR.J	Rak	Rak	Rak	Rak	Rak	Rak	Rak	Rak	Rak	Rak	Rak	32	
72	IV	112419105007	SNEHA N	Sne	Sne	Sne	Sne	Sne	Sne	Sne	Sne	Sne	Sne	Sne	32	
73	IV	112419105008	SONIYA K	Son	Son	Son	Son	Son	Son	Son	Son	Son	Son	Son	32	
74	IV	112419105009	SRIDEVI K	Sri	Sri	Sri	Sri	Sri	Sri	Sri	Sri	Sri	Sri	Sri	32	
75	IV	112419105010	SUNILKUMAR B	Sun	Sun	Sun	Sun	Sun	Sun	Sun	Sun	Sun	Sun	Sun	32	
76	ME-PED I	112422415001	MATHIYAZAGAN.G	Mat	Mat	Mat	Mat	Mat	Mat	Mat	Mat	Mat	Mat	Mat	32	



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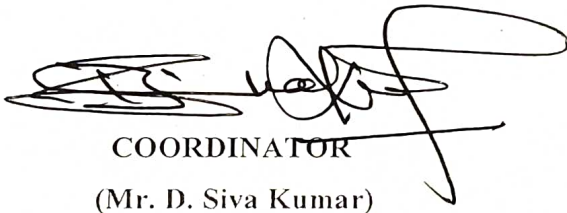


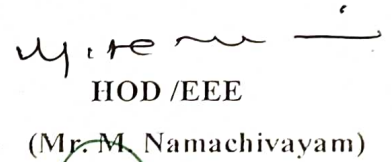
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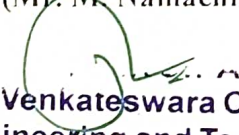
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S.N O	YEAR	REGISTER NUMBER	NAME OF STUDENTS	17.10.22		18.10.22		19.10.22		20.10.22		21.10.22		22.10.22		TOTAL HOURS (32)
				6 HOURS		6 HOURS		6 HOURS		4 HOURS		5 HOURS		5 HOURS		
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
77	ME- PED I	112422415002	SAKTHIVEL.S	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	32
78	ME- PED I	112422415004	SUGADEVAN.R	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	32


COORDINATOR
 (Mr. D. Siva Kumar)


HOD /EEE
 (Mr. M. Namachivayam)




Sri Venkateswara College of Engineering and Technology,
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22EEEVAC01 – INDUSTRIAL AUTOMATION USING PLC AND SCADA

TEST QUESTIONS

1. Pressure Load Control
 - (A) Capstan
 - (B) Programmable Logic Controller**
 - (C) Pneumatic Logic 1. The acronym PLC stands for
 - (D) PID Loop Controller
 - (E) Pressure Loss Chamber
2. Ladder logic programming consists primarily of:
 - (A) Virtual relay contacts and coils**
 - (B) Logic gate symbols with connecting lines
 - (C) Function blocks with connecting lines
 - (D) Text-based code
 - (E) Hieroglyphics
3. In a PLC, the scan time refers to the amount of time in which
 - (A) The technician enters the program
 - (B) Timers and counters are indexed by
 - (C) One “rung” of ladder logic takes to complete
 - (D) The entire program takes to execute**
 - (E) transmitted data communications must finish
4. In PLC programming, a retentive function is one that:
 - (A) Defaults to the “on” state
 - (B) Comes last in the program
 - (C) Defaults to the “off” state
 - (D) Cannot be edited or deleted
 - (E) Is not reset after a power cycle**
5. What is the largest integer number that a PLC counter function can reach if it uses a 16 bit register?
 - (A) 32,768
 - (B) 65,535**
 - (C) 65,536
 - (D) 65,537
 - (E) 32,767
6. An OR function implemented in ladder logic uses:
 - (A) Normally-closed contacts in series
 - (B) Normally-open contacts in series
 - (C) A single normally-closed contact
 - (D) Normally-open contacts in parallel**
 - (E) Normally-closed contacts in parallel




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7. A good application for a timed interrupt in a PLC program would be:
 - (A) A communications function block
 - (B) A PID function block**
 - (C) A math function block
 - (D) A motor start/stop rung
 - (E) A "watchdog" timer
8. When _____ contacts are actuated, they disrupt the power supply through them.
 - (A) Normally open type
 - (B) Normally closed type**
 - (C) Normally open and closed type
 - (D) None of the mentioned
9. The main difference between online and offline PLC programming is
 - (a) whether the programming pc has internet connectivity
 - (b) where the edited program resides**
 - (c) whether the PLC is running or stopped
 - (d) the type of program used
10. To increase the number of inputs and outputs of the PLC, one can use expansion modules.
 - (A) True**
 - (B) False
 - (C) None of the mentioned
11. The SCADA systems used to ____
 - (A) Monitor
 - (B) Control
 - (C) Both a and b**
 - (D) None of the above
12. The standard form of RTU is
 - (A) Reverse Terminal Unit
 - (B) Remote Terminal Unit**
 - (C) Reverse Unit
 - (D) None of the above
13. The standard form of HMI is
 - (A) Human Master Interface
 - (B) Human Machine Interface**
 - (C) Human Main Interface
 - (D) None of the above
14. What are the types of SCADA systems?
 - (A) Monolithic, Distributed
 - (B) Monolithic, Networked
 - (C) Monolithic, Distributed, Networked**



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- (D) None of the above
15. Where SCADA can be used?
- (A) Manufacturing
 - (B) Mass transient
 - (C) Traffic signals
 - (D) All of the above
16. How many levels does complex SCADA system have?
- (A) One
 - (B) Two
 - (C) Three
 - (D) Four
17. The SCADA system performs ____
- (A) Data presentation
 - (B) Data acquisition
 - (C) Networked data communication
 - (D) All of the above
18. ____ is not a component of a SCADA system
- (A) Sparger controller
 - (B) Output system
 - (C) Database server
 - (D) None of the above
19. The RAID level 50 is a combination of ____
- (A) RAID 1 and RAID 0
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 - (C) RAID 3 and RAID 0
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20. What is the standard form of RAID?
- (A) Reduced Array of Independent Disks
 - (B) Reverse Array of Independent Disks
 - (C) Redundant Array of Independent Disks
 - (S) Random Array of Independent Disks


COORDINATOR

(Mr. D. Siva Kumar)




HOD /EEE

(Mr. M. Namachivayam)


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22EEEVAC01 – INDUSTRIAL AUTOMATION USING PLC AND SCADA FEEDBACK FORM

Student Reg. No. & Name: 112421105320 & V.GAYATHRI
Sem & Year: 03 & II

Date: 22/10/2022

Evaluating the following Question

1. This course was interesting
a) Strongly Agree b) Agree c) Moderate d) Disagree e) Strongly Disagree
2. Was this course useful?
a) Strongly Agree b) Agree c) Moderate d) Disagree e) Strongly Disagree
3. During the course did you find any technical Difficulties?
a) Strongly Agree b) Agree c) Moderate d) Disagree e) Strongly Disagree
4. did the instructor delivered the information, you didn't know already
a) Strongly Agree b) Agree c) Moderate d) Disagree e) Strongly Disagree
5. The Subject matter was presented effectively
a) Strongly Agree b) Agree c) Moderate d) Disagree e) Strongly Disagree
6. This instructor helped me learn about how the course works in the real world.
a) Strongly Agree b) Agree c) Moderate d) Disagree e) Strongly Disagree
7. This instructor provided information I can use to be successful in my career.
a) Strongly Agree b) Agree c) Moderate d) Disagree e) Strongly Disagree
8. Overall how do you rate the Training Program?
a) Strongly Agree b) Agree c) Moderate d) Disagree e) Strongly Disagree



V. Gayathri
Student Signature

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22EEEVAC01 – INDUSTRIAL AUTOMATION USING PLC AND SCADA

TEST QUESTIONS

Student Reg. No. & Name: 112421105348 & M. Vignesh

Sem & Year: 03 & II

Date: 22/10/2022

1. Pressure Load Control

- (A) Capstan
- (B) Programmable Logic Controller
- (C) Pneumatic Logic 1. The acronym PLC stands for
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- (E) Pressure Loss Chamber

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- (A) Normally-closed contacts in series
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- (C) A single normally-closed contact

19
20



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(B) Human Machine Interface
(C) Human Main Interface
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14. What are the types of _____ systems?
(A) Monolithic, Distributed



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- (B) Monolithic, Networked
(C) Monolithic, Distributed, Networked
(D) None of the above
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22EEEVAC01 – INDUSTRIAL AUTOMATION USING PLC AND SCADA

Course Code	22EEEVAC01
Name of the Course	INDUSTRIAL AUTOMATION USING PLC AND SCADA
Duration of the Course	32 HOURS
Academic Year	2022-23
Period of the Course	17.10.2022-22.10.2022

STUDENT EVALUATION SHEET

S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARKS
1	II	112421105320	GAYATHRI.V	32	80
2	II	112421105321	GNANAGURUDOSS. M	32	80
3	II	112421105323	HARIHARAN.R	32	80
4	II	112421105324	INBASELVAN.D	32	90
5	II	112421105325	JOHN WESLY. S	32	90
6	II	112421105326	KAMESH. K	32	85
7	II	112421105327	KARTHICK.K	32	85
8	II	112421105328	KISHORE. L	32	90
9	II	112421105329	KOTTESSWARAN.S	32	90
10	II	112421105330	NARESH.M	32	95
11	II	112421105331	PARANTHAMAN.S	32	80
12	II	112421105332	PARTHIBAN.R	32	80
13	II	112421105333	PAVITHRA. K	32	90
14	II	112421105334	PRABHU. M	32	90
15	II	112421105335	PRASANTH. M	32	80
16		112421105336	PRAVEEN.M	32	80



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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARKS
17	II	112421105337	PUSHPARAJ. M	32	80
18	II	112421105338	RAJA PRIYA. K	32	80
19	II	112421105340	RAJKUMAR. N	32	90
20	II	112421105342	SARAVANAN.T	32	90
21	II	112421105343	SATHISH KUMAR. B	32	90
22	II	112421105344	SENTHAMIZH. I	32	85
23	II	112421105345	SUBASH CHANDRABOSE. E	32	90
24	II	112421105346	THARUN KUMAR. V	32	95
25	II	112421105347	VARUNRAJ.N	32	95
26	II	112421105348	VIGNESH. M	32	95
27	II	112421105349	VIJAY. R	32	80
28	II	112421105350	VISHNU.S	32	80
29	II	112421105351	YOUGANDERAN. R	32	80
30	III	112420105319	FRANKLIN JOSEPH.D.R.	32	80
31	III	112420105320	GOPIKRISHNAN.B	32	90
32	III	112420105321	GOWTHAMAN.M	32	90
33	III	112420105322	JAYAKUMAR.S	32	90
34	III	112420105323	JEEVANANDHAM.M	32	95
35	III	112420105324	JUSTIN.J	32	95
36	III	112420105325	KISHORE.V	32	85
37	III	112420105326	KODHANDAN.M.D	32	85
38	III	112420105328	LOKESH.S	32	80
39	III	112420105329	MANIKANDAN.G	32	80
40	III	112420105330	MANIKANDAN.P	32	80



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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARKS
41	III	112420105331	MANIVANNAN.T	32	90
42	III	112420105332	MONISHA.P	32	90
43	III	112420105333	NARENDRAN.M.G	32	80
44	III	112420105334	NAVEEN KUMAR.C	32	80
45	III	112420105335	NITHISH.M	32	80
46	III	112420105336	PARTHASARATHY.P	32	80
47	III	112420105337	PARTHIBAN.V	32	80
48	III	112420105338	PAVITHRA.R	32	85
49	III	112420105339	PUGAZHENTHI.K	32	85
50	III	112420105340	RAGHUL.S	32	85
51	III	112420105341	RAGHUL.V	32	90
52	III	112420105342	RAJESH.D	32	90
53	III	112420105343	RAMKUMAR.R	32	95
54	III	112420105345	SAKTHIVEL.S	32	95
55	III	112420105346	SAMPATHRAJ.R	32	80
56	III	112420105347	SANJAI.M	32	80
57	III	112420105348	SANJAY GOKUL.S	32	80
58	III	112420105349	SARAN.R	32	95
59	III	112420105350	SARANRAJ.M	32	95
60	III	112420105351	SATHISH.C	32	95
61	III	112420105352	SELVA.B	32	95
62	III	112420105353	SELVA GANAPATHY.M	32	80
63	III	112420105354	SILAMBARASAN.M	32	85
64		112420105356	SIVA KUMAR.V	32	80



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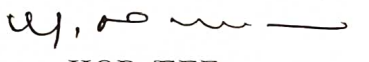
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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARKS
65	III	112420105357	TAMILANBAN.N	32	80
66	III	112420105358	TAMILARASU.M	32	80
67	III	112420105360	VIGNESHWARAN.G	32	90
68	III	112420105361	VIJAY.L	32	80
69	III	112420105362	VIGNESH.N	32	80
70	III	112420105363	ASHOK KUMAR.G	32	85
71	IV	112419105006	RAKESHKUMAR J	32	90
72	IV	112419105007	SNEHA N	32	90
73	IV	112419105008	SONIYA K	32	95
74	IV	112419105009	SRIDEVI K	32	80
75	IV	112419105010	SUNILKUMAR B	32	80
76	ME-PED I	112422415001	MATHIYAZAGAN.G	32	90
77	ME-PED I	112422415002	SAKTHIVEL.S	32	95
78	ME-PED I	112422415004	SUGADEVAN.R	32	90


COORDINATOR
(Mr. D. Siva Kumar)




HOD /EEE
(Mr. M. Namachivayam)


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This is to certify that Mr/Ms **S: SAKTHIVEL (112422415002)** UG/PG


Department of Electrical and Electronics Engineering has successfully completed

Value Added Course titled 'INDUSTRIAL AUTOMATION USING

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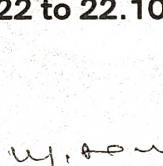
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This is to certify that ~~Mr/Ms~~ **K. SONIYA (112419105008)**..... UG/~~PG~~


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