

COLLEGE OF ENGINEERING AND TECHNOLOGY

Thrupachur-631203, Turuvathur 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"

ASSESMENT 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.

(Mr. D. Siva Kumar)

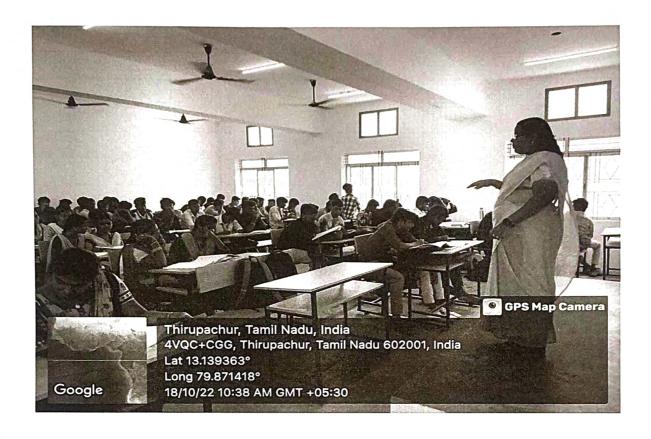
HOD /EEE (Mr. M. Namachivayam)



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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

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 our 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

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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)

Thirupachur ENGO

PRINCIPAL

(Dr. S. Palani)



THIRUPACHUR - 631203, THIRUVALLUR TK , & DT

APPROVED by AICTE, New Delhi and Affiliated to Anna University, Chennai

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

Date: 17.10.2022 - 22.10.2022

RESOURCE PERSON

1. Dr.M.Siva Subramaniyan/AssotProf/ SVCET

2. Mrs. S. Geetha / Asst Prof / SVCET

Mr. M. Namachivay

HOD / EEE

PRINC PAL
Sri Venkateswara College of
Engineering and Technology,
Thirupachur, Thiruvallur - 631 203

Dr.S. Palani
PRINCIPAL



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Sri Venkateswara College of Engineering and Technology

RESOURCE PERSON PROFILE

Resource person:1

Name

Dr. M. Sivasubramanian

Designation

Associate Professor

Department

Organization

Phone Number

EEE

Email.ID

8754538159

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:

1. Develop block diagram of PLC and explain the working.

2. Classify input and output interfacing devices with PLC.

hirupachur

COORDINATOR

(Mr. D. Siva Kumar)

HOD /EEE

(Mr. M. Namachivayam)

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	6 Days Traini	ng Schedule - INDUSTRIAL	AUTOMATION USING PLC AND SCADA
Day & Date	Session & Time	Speaker Name	Session Topics
Day 1 &	8.30 am to 10.30am	Dr. M. Sivasubramanian, Asso Prof / SVCET	Introduction about industrial automation
17.10.2022	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	8.30 am to 10.30am	Mrs. S. Geetha Asst Prof/SVCET	CPU IO Modules Power Supply and Communications Input and Output Devices
18.10.2022	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 m	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 &	8.30 am to 10.30am	Mrs. S. Geetha Asst Prof/SVCET	System Rockwell Automation Allen Bradley SCADA Project
21.10.2022	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 &	8.30 am to 10.30am	Dr. M. Sivasubramanian, Asso .Prof/SVCET	Switching Interfacing PLC to SCADA.
22.10.2022	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 / SVCE T	Interfacing PLC to SCADA & Test

(Mr. D. Siva Kumar)

COORDINATOR



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

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	NAMEOF STUDENTS	SIGNATURE
-1	11	112421105320	GAYATHRI.V	Carella
2	II	112421105321	GNANAGURUDOSS. M	Churchalon
3	11	112421105323	HARIHARAN.R	Montana R
4	II	112421105324	INBASELVAN.D	Tulan
5	11	112421105325	JOHN WESLY. S	Tohu h Jarl
6	11	112421105326	KAMESH. K	Keeryell V
7	II	112421105327	KARTHICK.K	Kultuck M
8	II	112421105328	KISHORE. L	63
9	II	112421105329	KOTTESSWARAN.S	Kotternera
10	II	112421105330	NARESH.M	N Papel
11	II	112421105331	PARANTHAMAN.S	Donastin
12	11	112421105332	PARTHIBAN.R	Parthola (
13	11	112421105333	PAVITHRA. K	1
14	11	112421105334	PRABHU. M	RIP
15	II	112421105335	PRASANTH. M	Physical
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PUSHPARAJ. M RAJA PRIYA. K RAJKUMAR. N SARAVANAN.T SATHISH KUMAR. B SENTHAMIZH. I SUBASH CHANDRABOSE. E	Pushpara Ray ex D. Ray.
RAJKUMAR. N SARAVANAN.T SATHISH KUMAR. B SENTHAMIZH. I SUBASH	Rayer D. Roy.
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42	III	112420105332	MONISHA.P	Monteho I
43	111	112420105333	NARENDRAN.M.G	narendran
44	111	112420105334	NAVEEN KUMAR.C	
45	111	112420105335	NITHISH.M	Nota . 1
46	III	112420105336	PARTHASARATHY.P	- orthograff
47	III	112420105337	PARTHIBAN.V	00
48	111	112420105338	PAVITHRA.R	Davina
49	III	112420105339	PUGAZHENTHI.K	sugoth alli
50	Ш	112420105340	RAGHUL.S	Pario
51	III	112420105341	RAGHUL.V	Fash
52	III	112420105342	RAJESH.D	1
53	III	112420105343	RAMKUMAR.R	Rankul
54	Ш	112420105345	SAKTHIVEL.S	
55 -	III	112420105346	SAMPATHRAJ.R	Sandalpais
56	III	112420105347	SANJAI.M	000
57	III	112420105348	SANJAY GOKUL.S	Sarlay brokul
58	111	112420105349	SARAN.R	
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60	III	112420105351	SATHISH.C	C. 10. V
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Engineering and Technology, Thirupachur, Thiruvallur - 631 203



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67	III	112420105360	VIGNESHWARAN.G	C'applace.
68	III	112420105361	VIJAY.L	Ja e
69	111	112420105362	VIGNESH.N	Vignesh
70	111	112420105363	ASHOK KUMAR.G	John News C
71	IV	112419105006	RAKESHKUMAR J	Rokelyhurer. 7
72	IV	112419105007	SNEHA N	Supl
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74	IV	112419105009	SRIDEVI K	Solon
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77	ME-PED I	112422415002	SAKTHIVEL.S	Label
78	ME-PED I	112422415004	SUGADEVAN.R	Sugaran

COORDINATOR

(Mr. D. Siva Kumar)

Thirupachur Pin: 631 203

HOD /EEE

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	AND SCADA
Duration of the Course	32 HOURS
Academic Year	2022-23
Period of the Course	17.10.2022-22.10.2022

ATTENDANCE

				17	10.22	10	10.22	10	10.22							
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Thirupachur Pin : 631 203



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S.N		DECISTED		17.10	0.22	18.10	0.22	19.10	0.22	20.1	0.22	21,1	0.22	22.1	0.22	TOTAL
0	YEAR	REGISTER NUMBER	NAMEOF STUDENTS	6 110	DURS	6 110	DURS	6 110	DURS	4 110	DURS	5 110	OURS	5 110	ours	HOURS (32)
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37	111	112420105326	KODHANDAN.M.D	Lux	Soul	Kad	Lady	Xcool	Kalle	Kool	Mon	Luch	You	(100	Lord	32
38	111	112420105328	LOKESH.S	Se.	إعلى	Cly	Jar	على	الحالية	عله	3	< \v	8 le_	al.	طاء	32
39	111	112420105329	MANIKANDAN.G	My	pul	my	My	Just 1	wh	Tust	my.	M	IM.	M	m	32
40	111	112420105330	MANIKANDAN.P	No	Houl	1 los	Jan	How	John	plan	Don	Der	Jan	المال	Mary	32
41	111	112420105331	MANIVANNAN.T	ous	رطئا	Jul	her	Leon	1	m	hur	m	my	w	www.	32
42	Ш	112420105332	MONISHA.P	Na	Man	ÀL.	10.	W.	Nac	Ň.	N.	N.	11	VP	26	32
43	III	112420105333	NARENDRAN.M.G	Nam	-M	Mus	Num	Nil	Two	IND	LAW	W	TIM	PM2	MM	32
44	III	112420105334	NAVEEN KUMAR.C	John	Jul.	John	July	Jul,	Dur	Sing	37.	(See	South	Juig	Duk	32
45	111	112420105335	NITHISH.M		OP	Oap	Q _D	0.	Ou	Ö.	QQ	Q	S.	Q	N	32
46	111	112420105336	PARTHASARATHY.	Josep 1	Zaur	Radi	2000	Par	Poeles	Sol (Zoer!	Zoul	Zood,	Pools	Party	32
47	111	112420105337	PARTHIBAN.V	De la	2	2	Van	25	P	P	P	7	DS	P	P	32
48	111	112420105338	PAVITHRA.R	P.B.	P. Bur	P.Pas		2.84	230	A Seal	289	2.Pr	E Bell	2.5	5.00	32
49	111	112420105339	PUGAZHENTHI.K	(or).	Bull	, and	1		of sell	rlow	bods	led	mel	ne so	nel	32
50	111	112420105340	RAGHUL.S	Dag !	D.	2	2	2	5	D'	2	0	Rag	Ď,	Bar	32
51	111	112420105341	RAGHUL.V	Jay (herry	Joer	Jagus &	Zart	Joseph 2	Lul	Que	Degli.	and	Rody	Jun	32
52	111	112420105342	RAJESH.D	200	1		Luc		Ren	2	2	2	2	R	P	32
53	111	112420105343	RAMKUMAR.R	Roules	hood	Day (Louis	and?	Door	Tout	2000	Poul	Davis	don	Row	32
54	m	112420105345	SAKTHIVEL.S	300	Ol C	le c		WP.	1018	R	C38	NA PAR	Call	(Age)	S. D.	32
5.5	Ш	112420105346	SAMPATHRAJ.R	Jul (fort	Sul	new	belle !	Levy	Soul	Seed	Lord	land	Sout	keun	32

Thirupachur Pin: 631 203)



COLLEGE OF ENGINEERING AND TECHNOLOGY

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

S.N		REGISTER	NAMEOF	17.1	0.22	18.10	0.22	19.10	0.22	20.1			0.22	-	0.22	TOTAL
0	YEAR	NUMBER	STUDENTS		DURS		DURS		DURS		DURS	5 H	OURS	5 H	AN	(32)
56	111	112420105347	SANJAI.M	FN	Sey	FN	Sol	Sap	Sign	SOP	Sw	Sig	Sa	Sg	Son	32
57	111	112420105348	SANJAY GOKUL.S	Sul	love	2018	Sough	Car	Con	Syl	Sarr	Coe	Sox	C	Rec	132
58	111	112420105349	SARAN.R	34	5,	2 #	Sy	Sy	Sy	3	Sy	Say	Sy	Si	Sy	32
59	111	112420105350	SARANRAJ.M	M	M	W.	MC	JAC	· MC	NG.	ME	M	MÉ	me	MS	32
60	111	112420105351	SATHISH.C	Sure	Sec	Ç.	5	Su	Sur	Ser	Se	Ç	2	S	S	- 32
61	Ш	112420105352	SELVA.B		Say	Sal	Selj	Saly	5	Soly	Salp	Fag.	Sag	Se	Selg	32
62	111	112420105353	SELVA GANAPATHY.M	M	N	M	ival.	13	m	M	With	ME	15	not	MA	32
63	111	112420105354	SILAMBARASAN.M	Say	J.	J.	Ser	S.	de la	3	Ser .	Ser	Se	de	& Comments	32
64	111	112420105356	SIVA KUMAR.V	Z.S.	VSS:	V.S	XE.	VS.	V.S.	V.S.	Yan	Ve	2:5	YS.	V.S.	32
65	111	112420105357	TAMILANBAN.N	Tank	iasp.	100	Tar	(ay	Tas	cas	Tay	Tal	Tol	Tak	Tay	32
66	111	112420105358	TAMILARASU.M	part -	The	1	That	The	Though	This	That	This	51 La	11/1	TI	32
67	- 111	112420105360	VIGNESHWARAN.G (Janes S	ton	Jan	Vand	VV	In	W.	You	Yu	M	Yu	Vu-	32
68	111	112420105361	VIJAY.L	4	Wy!	W)	Win (vij	Wy	m'	liez	Wy	ring	ly	My	32
69	111	112420105362	VIGNESH.N		Jan.	4	V	A	14	A	Val	Jul -	W.	4	Vuf	32
70	111	112420105363	ASHOK KUMAR.G	1	de.	1	1	1	JE .	Se,		d.		1		32
71	IV	112419105006	RAKESHKUMAR J	2	25	2	R	R	R	P	En la	B	R	P	P	32
72	IV	112419105007	SNEHA N	sha.	She	Zose	Sabl	CPM (Snel.	SAL	snew.	Snah.	Sna.	Sada	5nly	32
73	IV	112419105008	SONIYA K	don	Nous C	De 2	los o	De la	The c	Sec.	of a	for c	don c	Le c	the.	32
74	IV	112419105009			Suy	Wy !	59y.	ÈD.	Sa	_ `	Say	Sø.	19y.	Sug	50	32
75	IV	112419105010	SUNILKUMAR B	?	5	S	S	Su	£.	£ 2	2 ' Zu	2	5	3	S.	32
76	ME- PED I	112422415001	MATHIYAZAGAN.G)2 ×	المالم	d	WAR .	W.	Jel.	No.	Sel.	NA .	No.	4) ja	32



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S.N O	YEAR	REGISTER NUMBER	NAMEOF STUDENTS	17.10.22 6 HOURS		18.10.22 6 HOURS		19.10.22 6 HOURS				21.10.22 5 HOURS		22.10.22 5 HOURS		TOTAL HOURS (32)
				FN	AN	FN	AN	FN	AN	FN	ANA	FN	AN	FN	AN	
77	ME- PED I	112422415002	SAKTHIVEL.S	Sax.	Sol	(30)	Suf	54	Salt	500	90	Seely	Sol	Sal	300	32
78	ME- PED I	112422415004	SUGADEVAN.R	Sup	De C	Sub	رليك	Suls	بعليك	ر پلوک	Duly	Sul	Sus	S2)	Cue	< <i>3</i> 2

COORDINATOR

(Mr. D. Siva Kumar)

COLLEG Thirupachur Pin: 631 203

HOD/EEE

(Mr. M. Namachivayam)



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

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(E) Normally-word E65 mats in parallel



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Thirmachur-631203 Timeathir TK & DT

S. to The se	Approved by AICTE New Delhi & Affiliated to Anna University, Cheunai (A Telugu Minority Institution)
7. A good	dapplication 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) No	ormally open type
(B) No	ormally closed type
(C) No	ormally open and closed type
, ,	one of the mentioned
9. The m	ain difference between online and offline PLC programming is
(a)whe	ther the programming pc has internet connectivity
(b)wh	ere the edited program resides
(c)whe	ther the PLC is running or stopped
. ,	type of program used
10. To inc	crease the number of inputs and outputs of the PLC, one can use expansion modules
(A)Tr	
(B)Fal	
(C)No	ne of the mentioned
11. The S	CADA systems used to
(A) Mo	
(B) Co	
,	th a and b
(D)No	one of the above
10 TL4-	and forms of DTII in

- 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, Netwoodle & GA (C)Monolithic, Tibuted, worked Thirupachur Pin: 631 203



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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
 - (B)RAID 5 and RAID 0
 - (C) RAID 3 and RAID 0
 - (D)None of the above
- 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

OLLEGA

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(S) Random Array of Independent Disks

COORDINATOR

(Mr. D. Siva Kumar)

HOD/EEE

(Mr. M. Namachiyayam)



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22EEEVAC01 – INDUSTRIAL AUTOMATION USING PLC AND SCADA FEEDBACK FORM

Student Reg. No. & Name: 112421105320 \$ V. GAYATHRI

Sem & Year: 03 \$ 11

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

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Student Signature



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- INDUSTRIAL AUTOMATION USING PLC AND SCADA 22EEEVAC01

TEST QUESTIONS	
Student Reg. No. & Name: 112421105348 \$ M. U.	
Sem & Year: 03 \$ 11	Date: 22 10/2022
1. Pressure Load Control	
(A) Capstan	•
(B) Programmable Logic Controller	
(C) Pneumatic Logic 1. The acronym PLC stands for	//19
(D) PID Loop Controller	
(E) Pressure Loss Chamber	\ 20]
2. Ladder logic programming consists primarily of:	J-)
(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 wh	ich
(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	
(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 functions.	tion can reach if it uses a 16 bit register?
(A) 32,768	non can reach with about a recommendation
(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	PRINCIPAL
(B) Normally-open contactions	Cri Vonkateswara College of
(C) A single normal closed contact	Engineering and Technology,
11(6)	624 203

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(D) Normally-open	contacts in parallel		
	d contacts in parallel		
		PLC program would be:	
(A) A communicati			
(B) A PID function	block		
(C) A math function	n block		
(D) A motor start/st	top rung		
(E) A "watchdog" t	imer		
8. When contac	ts are actuated, they disru	upt the power supply throu	igh them.
(A) Normally open	type		
(B) Normally close	d type		
(C) Normally open	and closed type		
(D) None of the me	entioned		
9. The main difference	e between online and offl	line PLC programming is	
(A) whether the pro-	gramming pc has internet	t connectivity	
(B) where the edited	d program resides		
(C)whether the PLO	C is running or stopped		
(D)the type of prog			
1	mber of inputs and output	ts of the PLC, one can use	expansion modules.
(A)True			
(B)False			
(C)None of the mer			
11. The SCADA syste	ms used to		
(A) Monitor			
(B) Control			
(C) Both a and b			
(D)None of the abo			
12. The standard form			
(A) Reverse Termin			
(B) Remote Termin	iai Onit		
(C) Reverse Unit (D) None of the abo	21/2		
13. The standard form			
(A)Human Master l			
(B) Human Machin			_
(C) Human Main I			
(D) None of the abo			
14. What are the types			200
(A) Monolithic, Dis		Sril	PRINCIPAL Venkateswara Colle
(, , , , , , , , , , , , , , , , , , ,	11		・マロハロにちがみてみじるし



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Approved by AICTE New Dellif & Affillated t	0
(B)Monolithic, Networked	
(C)Monolithic, Distributed, Networked	
(D) None of the above	
5. 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	
(B)RAID 5 and RAID 0	

(D)None of the above20. What is the standard form of RAID?(A) Reduced Array of Independent Disks

(C) RAID 3 and RAID 0

(B)Reverse Array of Independent Disks

(C)Redundant Array of Independent Disks

(D) Random Array of Independent Disks





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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	NAMEOF STUDENTS	ATTENDANCE	MARKS
1	П	112421105320	GAYATHRI.V	32	20
2	11	112421105321	GNANAGURUDOSS. M	32	80
3	11	112421105323	HARIHARAN.R	32	80
4	II	112421105324	INBASELVAN.D	32	90
5	II	112421105325	JOHN WESLY. S	32	90
6	П	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	go
13	II	112421105333	PAVITHRA. K	32	90
14	II	112421105334	PRABHU. M	32	90
15	II	112421105335	PRASANTH. M	32	80
16	A COLLEGA	112421105336	PRAVEEN.M	32	RINCIPAL



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S.NO	YEAR	REGISTER NUMBER	NAMEOF STUDENTS	ATTENDANCE	MARKS
17	11	112421105337	PUSHPARAJ. M	32	80
18	11	112421105338	RAJA PRIYA. K	32	80
19	11	112421105340	RAJKUMAR. N	32	90
20	11	112421105342	SARAVANAN.T	32	90
21	II	112421105343	SATHISH KUMAR. B	32	90
22	П	112421105344	SENTHAMIZH. I	32	85
23	11	112421105345	SUBASH CHANDRABOSE. E	32	90
24	II	112421105346	THARUN KUMAR. V	32	95
25	II	112421105347	VARUNRAJ.N	32	95
26	П	112421105348	VIGNESH. M	32	95
27	II	112421105349	VIJAY. R	32	80
28	II	112421105350	VISHNU.S	32	80
29	П	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	34	50
40	III ARA COLLEG	112420105330	MANIKANDAN.P	32	CIPAL



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S.NO	YEAR	REGISTER NUMBER	NAMEOF STUDENTS	ATTENDANCE	MARKS
41	111	112420105331	MANIVANNAN.T	32	90
42	111	112420105332	MONISHA.P	32	90
43	111	112420105333	NARENDRAN.M.G	32	80
44	111	112420105334	NAVEEN KUMAR.C	32	80
45	111	112420105335	NITHISH.M	32	80
46	111	112420105336	PARTHASARATHY.P	32	80
47	111	112420105337	PARTHIBAN.V	<i>3</i> 2	80
48	III	112420105338	PAVITHRA.R	32	85
49	III	112420105339	PUGAZHENTHI.K	32	85
50	III	112420105340	RAGHUL.S	32	25
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 GOKULS	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	FULLEGA	112420105356	SIVA KUMAR.V	32	So CIPAL



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S.NO	YEAR	REGISTER NUMBER	NAMEOF STUDENTS	ATTENDANCE	MARKS
65	111	112420105357	TAMILANBAN.N	32	80
66	111	112420105358	TAMILARASU.M	32	80
67	111	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)

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(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

PLC & SCADA ' held from 17.10.2022 to 22.10.2022

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