

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

Technology Training Programme on Industrial Automation using PLC/SCADA



2022-23 (Even Semester) II Year EEE (20.02.2023 to 24.02.2023

&

27.02.2023 to 03.03.2023)

Trained by

Spot Light Technology, Dindigul

From

Dr. G.Mohan Babu,
Professor & Head,
Department of Electronics and Electronics Engineering,
SSM Institute of Engineering and Technology,
Dindigul-02

To
The Principal,
SSM Institute of Engineering and Technology,
Dindigul-02

Respected Sir,

Sub: Requesting Approval of conducting Technological Teaching for II Year EEE Students-Reg

The **Department of EEE** has planned to conduct Technological Teaching for Second Students on "Training on Industrial Automation using PLC/SCADA" which is scheduled to be conducted on the month of February 2023. In this regard, I request your permission to conduct this training on the scheduled month. The quotation details, syllabus and Training Schedule are attached with this letter. Kindly do the needful sir.

Name of the	Name of the	Total	No of	Date	Amount	Coordinator/Faculty in Charges
Technological	Company	Number	Hours		500	and the state of t
Training		of		9	A	
		Students			650	
Training on				20.02.23		
Industrial	SPOTLIGHT		P.	to	76500	
Automation		<i>C</i> 1	60	24.03.23,	-	Mr.T.Arulkumar, AP / EEE
using	TECHNOLOGY,	51	60	27.02.23	Rs. 1,02,000	Mr.P.Siva Subramanian, AP/EEE
PLC/SCADA	Dindigul.			То	1. [Mr.D.Manoj, AP/EEE
	-		2	03.03.23	Cel	23

Resource Person Details:

S O DINOIGH

Mr. A. Stephen Gaspar, Managing Director, Spotlight Technology, Dindigul.

Note: Training Cost will be settled to the company two days before the end of training

Thanking you.

Dr.D.SENTHIL KUMARAN, N.E., Ph.D., (NUS)

SSM Institute of Engineering and Technology Kuttathupatti Village, Sindalagundu (Po), Palani Road, Dindigul - 624 002. Yours faithfully

(Dr.G.Mohan Babu)



Department of Electrical and Electronics Engineering

Organizes

Ten days Technology Training On

" Industrial Automation using PLC / SCADA "

For III year and IV year students of EEE



27.02.2023 to 03.03.2023)

Trained by

Spot Light Technology, Dindigul

Co-ordinators

HoD

Principal

Mr.D.Manoj,AP/EEE Mr.P.Siva Subramanian,AP/EEE Dr.G.Mohanbabu

Dr.D.Senthil kumaran

ALL ARE INVITED



Dr.D. SENTHIL KUMARAN, M.T., Ph.D., (NUS)

Principal

SSM Institute of Engineering and Technology Kuttathupath Village Sindalagundu (Po), Palani Road, Dindigul - 624 002



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

CIRCULAR

17/02/2023

This is to inform that ten days training program on **INDUSTRIAL AUTOMATION USING PLC \ SCADA** is going to conduct for II year EEE students from 20.02.2023 to 24.02.2023, 27.02.2023 to 03.03.2023 by Spot light Technology Dindigul. All the students are informed to attend and enrich your knowledge.

Faculty In-charge

o Julien Baring and Jochnology - Oliving Christian

Dr.D.SENTHIL KUMARAN, M.E., Ph.L.

Principal

SSM Institute of Engineering and Techno

Kuttathupatti Village, Sindalagundu ii

Palani Road, Dindigul - 624 002



Sindalagundu post, Dindigul-624002, Tamilnadu.Ph:0451-2448800
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

TECHNOLOGY TRAINING ON "INDUSTRIAL AUTOMATION USING PLC\SCADA"

ATTENDANCE SHEET

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Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
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M. C. M. G. M. C. M. G. M. C. M. G. M. C. M. C	922121105028 MANIVASAGAN B B B R R R R R R R R R R R R R R R R	922121105039 NANIKANDANS S. M. C.	922121105028 MANIKANDANS S. LAM, C. MANIKANDANS S.	922121105029 MANIVASADAN 8 S. HOLL MADE S. NOW S.	922121105026 MANIVASAGAN B B B B B B B B B B B B B B B B B B B	922121105025 MANIKANDANS 5. HOLD & MODE SHOW SHOW SHOW SHOW SHOW SHOW SHOW SHOW	92121115039 MANIVANDANA S. LONG C. M. G.	9211115525 MANICASANAS B 5 6 6 5 5 5 6 7 5 7 6 7 6 7 6 7 6 7 6 7

Principal

SSM Institute of Engineering and Technology

Kuttathupatti Village Sindalagung 10,

Parani Road, Dingigu) 624 002



FACULTYNAME: STEPHEN GASPAR A

COURSE:

PLC & SCADA

	SYLLABUS
>	Introduction
>	Industrial Automation
>	PLC
>	About PLC & Brands
	 programming methods in PLC Ladder Logic Diagram Functional Block Diagram Structured Text Flow Chart
>	Programming exercise
>	Introduction to cx-programmersoftware
>	Tools in software
~	Implementing programs in software
>	Simulation
>	Practical session
>	PLC
	o Generate PLC Layout Modules
	 PLC parametric selection
	o Module layout
	o Insert PLC modules
	o Edit PLC module
	PLC Database File

➤ SCADA Introduction ○ Designing the layout ➤ Library ➤ Alarm ➤ Trends ➤ Recipe ➤ ODBC ➤ OLE ➤ Project Kit training PLC with SCADA linking



BSM Institute of Engineering and Technology
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Value added Course Summary (2022-2023)

: Industrial Automation using PLC /SCADA Course Name

Course Duration : 60 Hours

Year offered : II year students -2022-2023

Course Instructors : Mr. D. Manoj

Assistant professor /EEE

Course Outcome: The students gained knowledge about PLC/SCADA.

They did simulation and layout modules. They did project using this software.

: Self Framed / Collaboration with Industry Course Type

Assessment Mode

: 60 Hours Attendance

Number of participants : 51

: MCQ offline Scheme of Exam

Course Coordinator

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., INC.

Principal SSM Institute of Engineering and Technical

Kuttathupatti Village, Sind dagua-Palani Road, Dindigui 62



Sindalagundu post, Dindigul-624 002, Tamilnadu. Ph: 0451-2448800 (Approved by AICTE, Affiliated to Anna University, Chennai Accredited by NAAC)

Summary Report

The department of Electrical and Electronics Engineering, SSM Institute of Engineering and Technology conducted Technology training on Industrial Automation using PLC/SCADA .from 20th February 2023 to 24th February 2023 and 27th February 2023 to 3rd March. The course covered topics including Industrial Automation consists of an array of elements, which are well synchronized with each other. It performs functions such as controlling, sensing, supervision and monitoring of industrial processes. Functionally, industrial automation includes field-level (Sensors & Actuators), Control level, Supervisory, production control level (SCADA) and Information & enterprise level (MES & ERP). Students have attended assessment tests at the end of the course and certificates were issued. The students from second year EEE attended the course and got benefitted.





Dr.D.SENTHIL KUMARAN WE PAD.

SSM Institute of Engineering and Technology Kuttathupatti Village, Sindalagundu (Po), Palani Road, Dindigul - 624002.



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Dindigul – Palani Highway, Dindigul 624 002

Department of Electrical and Electronics Engineering

TECHNOLOGY TRAINING PROGRAMME ON INDUSTRIAL AUTOMATION USING PLC/SCADA

PLC/SCADA MULTIPLE CHOICE QUESTION

Name of the student:

Year/sem:

Date:

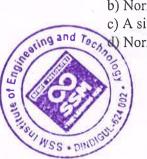
- 1. The acronym PLC stands for
 - a) Pressure Load Control
 - b) Programmable Logic Controller
 - c) Pneumatic Logic Capstan
 - d) PID Loop Controller
- 2. In PLC programming, a retentive function is one that
 - a) Defaults to the "on" state
 - b) Is not reset after a power cycle
 - c) Defaults to the "off" state
 - d) Cannot be edited or deleted
- 3. 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
- 4. 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
- 5. The difference between online and offline PLC programming is
 - a) whether the PLC is running or stopped
 - b) whether the programming PC has internet connectivity
 - c) the type of programming cable used
 - d) where the edited program resides
- 6. 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
- 7. 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

Normally-open contacts in parallel

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Palani Road, Dindigul - 624 002



	ounter function can reach if it uses a 16 bit register?
a) 32,768	
b) 65,535	
c) 65,536	
d) 65,537	n of the orange
9. The part that monitors the inputs and makes dec	isions in a PLC is the CPU.
a) True	
b) False	
10. In a PLC "I" is used for output and "Q" is used	for input
a) True	
b) False	
11. To increase the number of inputs and outputs of	of the PLC, one can use expansion modules.
a) True	
b) False	
12. 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 fan	
13. The is moved toward the relay electrom	agnet when the relay is on.
a) Armature	
b) Coil	
c) NO contact	
d) NC contact	
14. Which of the following RLL applications is no	t normally performed in early automation systems?
a) On/off control of field devices	, i
b) Logical control of discrete devices	
c) On/off control of motor starters	
d) Proportional control of field devices	
15. When a relay is NOT energized	
a) There is an electrical path through the No	O contacts
b) There is an electrical path through the No	C contacts
c) Neither the NO or the NC contacts have	
d) Both the NO and the NC contacts have a	
16. How many levels does complex SCADA system	
a)One	II III VO.
b)Three	
c)Four	
d)Two	
17. The functions of the SCADA systems performe	ed by using
a) Remote telemetry units	
b) SCADA master units	
c) Sensors, communication network	
d) All of the above	
18. Where SCADA can be used?	NII
a) Mass transit	1/ 1/
b) Traffic signalsc) Manufacturing	
d) All reports	w C T
ag and rechnol	Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
sing and Technology	Principal
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	Palani Road, Dindigul - 624 002
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19.	Th	e SCADA system performs	
	a)	Data acquisition	
	b)	Data presentation	
	c)	Networked data communication	
	d)	All of the above	
20.		is not a component of SCADA system	
	a)	Database server	
	b)	Sparger controller	
	c)	Output system	
	d)	None of the above	
21.	Wł	nat is the standard form of RAID?	
	a)	Redundant Array of Independent Disks	
	b)	Reverse Array of Independent Disks	
		Random Array of Independent Disks	
	d)	Reduced Array of Independent Disks	
22.	The	e standard form of MMI is	
	a)	Master Machine Interface	
	b)	Main Machine Interface	
	c)	Man Machine Interface	
	d)	None of the above	
23.	The	e RAID level 50 is a combination of	
	a)	RAID 5 and RAID 0	
	b)	RAID 3 and RAID 0	
	c)	RAID 1 and RAID 0	
	d)	None of the above	
24.	Wh	at are the types of SCADA systems?	
	a)	Monolithic, Networked	
	b)	Monolithic, Distributed, Networked	
	c)	Monolithic, Distributed	
	d)	All of above	
25.	The	Redundant Array of Independent Disk is used for _	
		Improvement of reliability	
		Improvement of performance	
		All of above	
	d)	None of above	/
			6



Dr.D.SENTHIL KUMARAN, M.E., Ph. 78)
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Sindalagundu post, Dindigul-624002, Tamilnadu.Ph:0451-2448800 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

TECHNOLOGY TRAINING ON "INDUSTRIAL AUTOMATION USING PLC\SCADA" MARK SHEET

		MARK SHEET		
S. No.	Reg.no.	Student Name	MARK	
1	922121105001	ABIRAMI G	14	
2	922121105003	AISHWARYA M.P	19	
3	922121105004	ARCHANA DEVI B	13	
4	922121105005	ARUN KUMAR S	13	
5	922121105006	BALAMURUGAN M	12	
6	922121105007	BALA SUBRAMANIYAN R	13	
7	922121105008	BHUVANESWARI G	15	
R	922121105009	CATHRIN NISHA M	13	
9	922121105010	CELIN JAYAMARY A	08	
10	922112105011	DEENA DHAYALAN P.A	10	
11	922121105013	DIVYAJ	12	
12	922121105014	DOMINIC SCAPLARRAJ A	13	
13	922121105015	EZHUMALAI NAGA VISHNU S	12	
14	922121105016	GOPI J	15	
15	922121105017	HARIHARAN T	18	
16	922121105018	JAYASRI S	13	
17	922121105020	KALEESWARAN M	14	
18	9221211050021	KAMALEE A	13	
19	922121105022	KAMILA SAI K	18	9.32
20	922121105023	KANYAK	17 Dr.D.SI	ENTHIL KUMARAN, M.E., Ph.
21	922121105024	KARTHICK RAJ D	10	Principal and Technolog
22	922121105025	KAVIYA LAKSHMI S	08 SSM In	athuratti Village, Sindalagundu (Po). Alani Road, Dindigul - 624 002
24	922121105027	LOKENDRA SOWMIYAN S	12 P	alani Road, Dindigul - 624 002
25	922121105028	MANIKANDAN S	18	
26	922121105029	MANIVASAGAN B	13	
27	922121105030	MANI VEL G	08	
28	922121105031	MANOJKUMAR A	15	
29	922121105032	MINIPRIYA K	16	
30	922121105033	MOHAMMED SIDDIQ A	12	
31	922121105034	NARMATHA DEVI P		ering and
32	922121105035	PONRAJ R	10	The oring and rechanged to the original and rechanged to the oring and rechanged to the original and rechanged to the
33	922121105036	PRADISH V S	13	



34	922121105037	PRIYA DHARSHINI J	04
35	922121105038	RAGAVI R	12
36	922121105039	RAJESHWARI J	13
37	922121105041	REETHANA M	10
38	922121105042	SANJAY G	08
39	922121105043	SANTHIYA M	- 11
40	922121105044	SANTHOSH C	09
41	922121105045	SARAN RAHUL G	22
42	922121105046	SELVAKUMAR C	15
43	922121105047	SHARMILA M	16
44	922121105048	SRI SAKTHI J T	11
45	922121105049	SRI SUPRAJA S	13
46	922121105050	VAISHALI M	11
47	922121105051	VANAJA G	18
48	922121105052	VEERACHAMY S	12
49	922121105301	SALAMON VINCENT RAJ R	16
50	922121105302	YUDISH M	11
51	922121105303	YUVARAJ T	10

Faculty Inchar

PRINCIPAL

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Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
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Department of Electrical and Electronics Engineering



TECHNOLOGY TRAINING PROGRAMME ON INDUSTRIAL **AUTOMATION USING PLC/SCADA**

PLC/SCADA MULTIPLE CHOICE OUESTION

Name of the student: 1

Year/sem : 11 -3 Date: 03 - 3 - 20 23

1. The acronym PLC stands for

a) Pressure Load Control

(b) Programmable Logic Controller

c) Pneumatic Logic Capstan

d) PID Loop Controller

2. In PLC programming, a retentive function is one that

a) Defaults to the "on" state

(b) Is not reset after a power cycle

c) Defaults to the "off" state

d) Cannot be edited or deleted

3. A good application for a timed interrupt in a PLC program would be

a) A communications function block

(6) A PID function block

c) A math function block

d) A motor start/stop rung

4. In a PLC, the scan time refers to the amount of time in which

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

5. The difference between online and offline PLC programming is

(a) whether the PLC is running or stopped

b) whether the programming PC has internet connectivity

d) the type of programming cable used

d) where the edited program resides

6. Ladder logic programming consists primarily of

a) Virtual relay contacts and coils

b) Logic gate symbols with connecting lines

Function blocks with connecting lines

d) Text-based code

7. 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

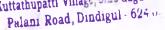
Normally-open contacts in parallel

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Principal

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Kuttathupatti Village, Sindalagune





8. What is the largest integer number that a	a PLC counter function can reach if it uses a 16 b	oit register?
a) 22,768		
65,535		
c) 65,536		
d) 65,537	1 1 1 1 1 project of contra	
9. The part that monitors the inputs and ma	akes decisions in a PLC is the CPU.	6
a True		
b) False	10 1	- 2
10. In a PLC "I" is used for output and "Q"	is used for input	
a) True (5) False		
	out of a Calca DI Co	
True	outputs of the PLC, one can use expansion modul	es.
(b) False		
	1 in	
12. An example of discrete (digital) contro	I IS	
a) Varying the volume of a music s	ystem	
Turning a lamp ON or OFF		
c) Varying the brightness of a lamp		
d) Controlling the speed of a fan	1	
	electromagnet when the relay is on.	
a) Armature b) Coil		
d) NC contact		
	ang is not normally northwest in a state of	
a) On/off control of field devices	ons is not normally performed in early automation	n systems?
(b) Logical control of discrete devices	00	
c) On/off control of motor starters	es	
d) Proportional control of field devi	icos	
15. When a relay is NOT energized	icos	
a) There is an electrical path through	th the NO contacts	
There is an electrical path through		
c) Neither the NO or the NC contac		
d) Both the NO and the NC contacts	s have an electrical path	
16. How many levels does complex SCAD		-
a)One	11 System mave:	
b)Three		
c)Four		
1 Two		
17. The functions of the SCADA systems p	performed by using	
a Remote telemetry units	A	
b) SCADA master units		
Sensors, communication networ All of the above	rk 😽	-
18. Where SCADA can be used?	61	
Mass transit	/V 1	
b) Traffic signals	1/1/2	
c) Manufacturing	WV M	
d) All stinsberge	D- D CENTUIL VIINADAN ME DED	(MITC)
Edit Car	Dr.D.SENTHIL KUMARAN, M.E., Ph.D., Principal	(MUS;
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() ()	Palent Road, Dindigut 624 002	100
d) All ambone roch of the state		
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19. The	SCADA system performs
	Data acquisition
	Data presentation
	Networked data communication
13	All of the above
20.	is not a component of SCADA system
a)/	Database server
160	Sparger controller
	Output system
	None of the above
21. Wh	at is the standard form of RAID?
a)	Redundant Array of Independent Disks
(b)	Reverse Array of Independent Disks
(2)	Random Array of Independent Disks
' (1)	Reduced Array of Independent Disks
22. The	standard form of MMI is
<u>a</u>)	Master Machine Interface
b)	Main Machine Interface
V- 1	Man Machine Interface
	None of the above
	RAID level 50 is a combination of
	RAID 5 and RAID 0
1.0	RAID 3 and RAID 0
	RAID 1 and RAID 0
	None of the above
	at are the types of SCADA systems?
	Monolithic, Networked
	Monolithic, Distributed, Networked
	Monolithic, Distributed
	All of above
	Redundant Array of Independent Disk is used for
	Improvement of reliability
	Improvement of performance
	All of above
(0)	None of above
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Department of Electrical and Electronics Engineering

TECHNOLOGY TRAINING PROGRAMME ON INDUSTRIAL AUTOMATION USING PLC/SCADA

PLC/SCADA MULTIPLE CHOICE QUESTION

Name of the student: Lokardra Sowmiyan
Year/sem: 71
Date: 03-03-2023

1. The acronym PLC stands for

(a) Pressure Load Control b) Programmable Logic Controller

8) Pneumatic Logic Capstan

d) PID Loop Controller

2. In PLC programming, a retentive function is one that

a) Defaults to the "on" state

b) Is not reset after a power cycle

c) Defaults to the "off" state

(d) Cannot be edited or deleted

3. A good application for a timed interrupt in a PLC program would be

A communications function block

b) A PID function block

c) A math function block

d) A motor start/stop rung

4. In a PLC, the scan time refers to the amount of time in which

mathe 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

5. The difference between online and offline PLC programming is

a) whether the PLC is running or stopped

b) whether the programming PC has internet connectivity

c) the type of programming cable used

Where the edited program resides

6. Ladder logic programming consists primarily of

(a) Virtual relay contacts and coils

by Logic gate symbols with connecting lines

c) Function blocks with connecting lines

d) Text-based code

7. An OR function implemented in ladder logic uses

a) Normally-closed contacts in series

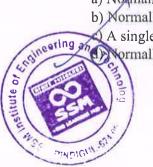
b) Normally-open contacts in series

A single normally-closed contact

Normally-open contacts in parallel

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SSM Institute of Engineering and Technology Kuttathupatti Village, Sindalagundu (Po). Palam Road, Dindigul 624 Jul



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	counter function can reach if it uses a 16 bit register?
a) 32,768	
65,535	
c) 65,536	
d) 65,537	DY COLUMN CRYY
9. The part that monitors the inputs and makes d	lecisions in a PLC is the CPU.
a) True	
False	10
10. In a PLC "I" is used for output and "Q" is us	sed for input
True	
b) False	Cd. DI C
11. To increase the number of inputs and output	s of the PLC, one can use expansion modules.
a True	
b) False	
(12. An example of discrete (digital) control is	
a) varying the volume of a music system	
Turning a lamp ON or OFF	
c) Varying the brightness of a lamp	
d) Controlling the speed of a fan	
13. The is moved toward the relay electron	magnet when the relay is on.
Armature	
b) Coil	
c) NO contact	3
d) NC contact	
	not normally performed in early automation systems?
a) Owoff control of field devices	
Logical control of discrete devices	
On/off control of motor starters	
Proportional control of field devices	
15. When a relay is NOT energized	
There is an electrical path through the	
b) There is an electrical path through the	
) Neither the NO or the NC contacts have	ve an electrical path
d) Both the NO and the NC contacts have	
16. How many levels does complex SCADA sys	tem have?
b)Three	
c)Four	
Wo	
17. The functions of the SCADA systems perfor	med by using
Remote telemetry units	
b) SCADA master units	
Sensors, communication network	A
d) All of the above	MIT
18. Where SCADA can be used?	$M \cap M$
Mass transit	
b) Traffic signals	WILLIAM WE DED (NIIS)
Manufacturing	Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
C. C	Principal SSM Institute of Engineering and Technology
(S)	SSM Institute of Engineering Adaguage (Po), Kuttathupatti Village, Sindalaguage (Po),
	Palani Road, Dindigul 624 002
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E CONTRACTOR OF THE PARTY OF TH	
b) Traffic signals Manufacturing d) Aldiabaye Compigning	

19. The SCADA system performs	
Data acquisition	
b) Data presentation	
(c) Networked data communication	
d) All of the above	27.040.00
20 is not a component of SCADA a) Database server	System
b) Sparger controller c) Output system	
None of the above	
21. What is the standard form of RAID?	
a Redundant Array of Independent Disks	
b) Reverse Array of Independent Disks	
c) Random Array of Independent Disks	
d) Reduced Array of Independent Disks	
22. The standard form of MMI is	
Master Machine Interface	1
b) Main Machine Interface	
c) Man Machine Interface	
d) None of the above	
23. The RAID level 50 is a combination of	
a) RAID 5 and RAID 0	
b) RAID 3 and RAID 0	
RAID 1 and RAID 0	
d) None of the above	
24. What are the types of SCADA systems?	
a) Monolithic, Networked	
b) Monolithic, Distributed, Networked	
Monolithic, Distributed	
All of above	
25. The Redundant Array of Independent Disk	is used for
a) Improvement of reliability	
Improvement of performance	
All of above	
d) None of above	-
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Department of Electrical and Electronics Engineering



TECHNOLOGY TRAINING PROGRAMME ON INDUSTRIAL **AUTOMATION USING PLC/SCADA**

PLC/SCADA MULTIPLE CHOICE OUESTION

Name of the student: Alchwarye M.P.
Year/sem: 17
Date: 03-03-2023

- 1. The acronym PLC stands for
 - a) Pressure Load Control
 - (b) Programmable Logic Controller
 - c) Pneumatic Logic Capstan
 - d) PID Loop Controller
- 2. In PLC programming, a retentive function is one that
 - a) Defaults to the "on" state
 - Is not reset after a power cycle
 - c) Defaults to the "off" state
 - d) Cannot be edited or deleted
- 3. A good application for a timed interrupt in a PLC program would be
 - a) A communications function block
 - A PID function block
 - c) A math function block
 - d) A motor start/stop rung
- 4. 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
- 5. The difference between online and offline PLC programming is
 - (a) whether the PLC is running or stopped
 - b) whether the programming PC has internet connectivity
 - c) the type of programming cable used
 - d) where the edited program resides
- 6. Ladder logic programming consists primarily of
 - a) Virtual relay contacts and coils
 - b) Logic gate symbols with connecting lines
 - Function blocks with connecting lines
 - d) Text-based code
- 7. An OR function implemented in ladder logic uses
 - a) Normally-closed contacts in series
 - b) Normally-open contacts in series
 - A single normally-closed contact
 - Normally-open contacts in parallel

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8. What is the largest integer number that a PLC co	ounter function can reach if it uses a 16 bit register?
a) 32,768	
65,535	
c) 65,536	
d) 65,537	
9. The part that monitors the inputs and makes dec	isions in a PLC is the CPU.
True	
b) False	
10. In a PLO"" is used for output and "Q" is used	for input
a) True	
Talse	
11. To increase the number of inputs and outputs of	of the PLC, one can use expansion modules.
True	
(b) False	
42. An example of discrete (digital) control is	
a) Varying the volume of a music system	
Turning a lamp ON or OFF	
c) Varying the brightness of a lamp	
d) Controlling the speed of a fan 13. The is moved toward the relay electrom	
13. The is moved toward the relay electrom	agnet when the relay is on.
b) Coil	
c) NO contact	
d) NC contact	
·	t normally performed in early automation systems?
a) Oppoff control of field devices	t normally performed in early automation systems?
b) Logical control of discrete devices	
c) On/off control of motor starters	
Proportional control of field devices	
15. When a relay is NOT energized	
a) There is an electrical path through the Ne	O contacts
b) There is an electrical path through the N	
c) Neither the NO or the NC contacts have	
10 Both the NO and the NC contacts have a	n electrical path
16. How many levels does complex SCADA system	
a)One	
b)Three	
c)Four	-1
17 The functions of the SCADA systems and fine	.11
17. The functions of the SCADA systems performed (a) Remote telemetry units	ed by using
b) SCADA master units	
Sensors, communication network	A
d) All of the above	$A \cap A$
18. Where SCADA can be used?	1/1
a) Mass transit	LL!
b) Traffic signals	De D CDUMENT
Manufacturing	Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS
above above	Principal
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100 mg	Palani Road, Dindigul 624 002.
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19. The SCADA system performs	
a) Data acquisition	
b) Data presentation	
c) Networked data communication	
All of the above	
20 is not a component of SCADA sy	ystem
a) Database server	
Sparger controller	
Output system	
d) None of the above	
21. What is the standard form of RAID?	
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Department of Electrical and Electronics Engineering



TECHNOLOGY TRAINING PROGRAMME ON INDUSTRIAL AUTOMATION USING PLC/SCADA

PLC/SCADA MULTIPLE CHOICE QUESTION

Name of the student: S. Hanikandar

Year/sem: T

Date:

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Department of Electrical and Electronics Engineering

STUDENT FEEDBACK FORM

Name of the Student: VANAJA. 6

Year/Sem:

11/10

Date:

03.03.23

Dear Student,

You are required to give your feedback on the following aspects. Please tick in the respective column.

S.No	Criteria	Rating					
		Excellent	Very	Good	Fair	Satisfactory	
1	Course content	1					
2	Skill development		0				
3	Motivation			1			
4	Regularity and punctuality of trainer		1				
5	Coverage of syllabus			1			
6	Interaction		1				
7	Individual attention	1					
8	Outcome						
9	Other suggestions			*			

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Department of Electrical and Electronics Engineering

STUDENT FEEDBACK FORM

Name of the Student:	Domnic	Scaplan Raj	. A
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Year/Sem:

2023 1 1

Date:

3.3.23

Dear Student,

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S.No	Criteria	Rating					
		Excellent	Very	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	331	/				
9	Other suggestions			-			

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Year/Sem: $\sqrt{1}/\sqrt{2}$ Date: 03/03/23

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S.No	Criteria		Rating					
		Excellent	Very	Good	Fair	Satisfactory		
1	Course content							
2	Skill development							
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4	Regularity and punctuality of trainer	_						
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STUDENT FEEDBACK FORM

Name of the Student: Kathkin Wisha
Year/Sem: Il / IV
Date: 03/03/23

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

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organised by

Department of Electrical and Electronics Engineering

Date: 10/03/2023



Venue: PSS LAB, SSM IET

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Venue: PSS LAB, SSM IET





HoD/EEE Dr.G.MOHAN BABU

PRINCIPAL Dr.D.SENTHIL KUMARAN

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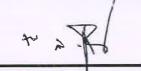
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