

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, Dindigut-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 Technological Training	Name of the Company	Total Number of Students	No of Hours	Date	Amount	Coordinator/Faculty in Charges
Training on Industrial Automation using PLC/SCADA	SPOTLIGHT TECHNOLOGY, Dindigul.	51	60	20.02.23 to 24.03.23, 27.02.23 To 03.03.23	76500 Rs. 402,000	Mr.T.Arulkumar, AP / EEE Mr.P.Siva Subramanian, AP/EEE Mr.D.Manoj, AP/EEE

Resource Person Details:

ASS 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

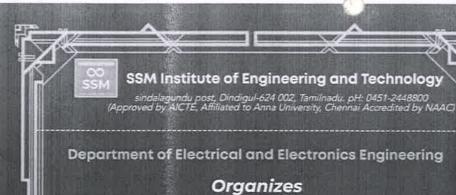
Thanking you.

Dr.D.SENTHIL KUMARAN, W.E., Ph.D., (NUS) Principal

SSM Institute of Engineering and Technology Kuttathupatti Village, Sindalagundu (Pos, Palani Road, Dindigul - 624 002.

Yours faithfully

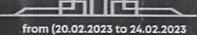
(Dr.G.Mohan Babu)



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, ME., Ph.D., (NUS)

Principal

SSM Institute of Engineering and Technology Kuttathupato Village Sindulagunge (Po). Palant Road, Diedigul - 624 662



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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

John DINDIGUL Standard

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

Principal

SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu p
Palani Road, Dindigul - 624 002

HODEEE



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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Or.D.SENTHIL KUMARAN, M.E., Ph.D., (NOS)
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Paiani Road, Dinaigu) 624 002



#### FACULTYNAME: STEPHEN GASPAR A

**COURSE:** 

PLC & SCADA

	SYLLABUS	
<b>&gt;</b>	Introduction	
>	Industrial Automation	
>	PLC	
>	About PLC & Brands	
	programming methods in PLC	
	➤ Ladder Logic Diagram	
	<ul> <li>Functional Block Diagram</li> <li>Structured Text</li> </ul>	
	> Structured Text > Flow Chart	
>	Programming exercise	
>	Introduction to ex-programmersoftware	
>	Tools in software	
>	Implementing programs in software	
>	Simulation	
×	Practical session	
>	PLC	
	o Generate PLC Layout Modules	
	<ul> <li>PLC parametric selection</li> </ul>	
	o Module layout	
	<ul> <li>Insert PLC modules</li> </ul>	
	o Edit PLC module	
	PLC Database File	

	➤ SCADA Introduction	
	<ul> <li>Designing the layout</li> </ul>	
>	Library	
>	Alarm	
>	Trends	
>	Recipe	
>	ODBC	
>	OLE	
-	Project	
	Kit training	
	PLC with SCADA linking	



Principal

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### ⊗ ssm

#### SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Dindigul - Palani Highway, Dindigul 624 002

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### Value added Course Summary (2022-2023)

Course Name

: Industrial Automation using PLC /SCADA

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.

Course Type

: Self Framed / Collaboration with Industry

#### **Assessment Mode**

Attendance

: 60 Hours

Number of participants

: 51

Scheme of Exam

: MCQ offline

Course Coordinator

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (MUS)

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DIMDIGUT- STAND

HoD



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#### **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.





DI.D.SENTINL Principal

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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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8. What is the largest integer number that a PLC counter a) 32,768	function can reach if it uses a 16 bit register?
b) 65,535	
c) 65,536	
d) 65,537	
9. The part that monitors the inputs and makes decisions	in a PLC is the CPH
a) True	marko wale cro.
b) False	
10. In a PLC "I" is used for output and "Q" is used for in	mut
a) True	,
b) False	
11. To increase the number of inputs and outputs of the l	PIC one can use expansion modules
a) True	De, one can use expansion modules.
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 electromagnet	archan the relevite on
a) Armature	when the relay is on.
b) Coil	
c) NO contact	
d) NC contact	al al
	11
14. Which of the following RLL applications is not norm	nally performed in early automation systems?
a) On/off control of field devices	
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 com	tacts
b) There is an electrical path through the NC cont	
c) Neither the NO or the NC contacts have an cle	
d) Both the NO and the NC contacts have an elec	
16. How many levels does complex SCADA system have	e?
a)One	
b)Three c)Four	
d)Two	
17. The functions of the SCADA systems performed by a	raina
a) Remote telemetry units	ratif
b) SCADA master units	
c) Sensors, communication network	
d) All of the above	
18. Where SCADA can be used?	$A \setminus A \setminus A$
a) Mass transit	1/ 1
b) Traffic signals	16 1) 1
c) Manufacturing	av
d) Alanapove	A D ODNING COLLEGE
sing and Technology	Dr.D.SENTHIL RUMARAN, M.E., Ph.D., (NUS)
(\$ ( 6 ) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Principal
State of the country	SSM Institute of Engineering and Technology
(5/0)/ (3)	Kuttathupatti Village, Sindalagundere. Palani Road, Dindigul - 624 00.
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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.	WI	hat 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,	Th	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	
	_	RAID 5 and RAID 0	
		RAID 3 and RAID 0	
	,	RAID 1 and RAID 0	
		None of the above	
24.		nat are the types of SCADA systems?	
		Monolithic, Networked	
	,	Monolithic, Distributed, Networked	
		Monolithic, Distributed	
	-	All of above	
25.		e Redundant Array of Independent Disk is used for	
		Improvement of reliability	
		Improvement of performance	
	,	All of above	
	d)	None of above	/
			V





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

### TECHNOLOGY TRAINING ON "INDUSTRIAL AUTOMATION USING PLC\SCADA"

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29	922121105032	MINIPRIYA K	16	-
30	922121105033	MOHAMMED SIDDIQ A	12	
31	922121105034	NARMATHA DEVI P	11	ineering and
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35	922121105038	RAGAVIR	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	YUVARAJT	10

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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: Days

Year/sem: 11 =3

Date: 03-3-2023

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

(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

MA 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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8. What is the largest integer number that a PLC counter function can reach if it uses a 16 bit re	enister?
a) 22,768	gister:
(6) 65,535	
c) 65,536	
d) 65,537	
9. The part that monitors the inputs and makes decisions in a PLC is the CPU.	100
True	
b) False	100
10. In a PLC "I" is used for output and "Q" is used for input	
a) True	
To False	
11. To increase the number of inputs and outputs of the PLC, one can use expansion modules.	
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 electromagnet when the relay is on.	
a) Armature	
b) Coil	
NO contact	
d) NC contact	
14. Which of the following RLL applications is not normally performed in early automation sys	atama?
a) On/off control of field devices	stems?
(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) Phere is an electrical path through the NO contacts	
There is an electrical path through the NC contacts	
c) Neither the NO or the NC contacts have an electrical path	
d) Both the NO and the NC contacts have an electrical path	
16. How many levels does complex SCADA system have?	
a)One	
b)Three c)Four	
1 COPOUR OF TWO	
17. The functions of the SCADA systems performed by using	
a) Remote telemetry units	
SCADA master units	
Sensors, communication network	
All of the above	
18. Where SCADA can be used?	
Mass transit	
b) Traffic signals	
c) Manufacturing	
d) All ating one;	
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SSM Institute of Engineering and Technology	
Eutrathmatti Villago, Sinualaguno, 1101. Relani Road, Dindigul 624 00-	
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19. The SCADA system performs
Data acquisition
b) Data presentation
Networked data communication
d) All of the above
20 is not a component of SCADA system
a) Database server
Sparger controller
c) Output system
d) None of the above
21. What is the standard form of RAID?
a) Redundant Array of Independent Disks
b) Reverse Array of Independent Disks
Random Array of Independent Disks
Reduced Array of Independent Disks
22. The standard form of MMI is
a) Master Machine Interface
b) Main Machine Interface
Man Machine Interface
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
c) RAID 1 and RAID 0
None of the above
24. What 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
a) Improvement of reliability
b) Improvement of performance
c) All of above
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: Lokandra Sowmiyan Year/sem: 11 Date: 03-03-2023

I. 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

m 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

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

Ownermally-open contacts in parallel

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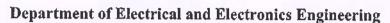
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8. What is the largest integer number that a PLC cour	nter function can reach if it uses a 16 bit register?
a) 32,768	
65,535	
c) 65,536	
d) 65,537	
9. The part that monitors the inputs and makes decisi	ons in a PLC is the CPU
V a) True	
(h) False	Y
10. In a PLC "I" is used for output and "Q" is used for	or input
True	и шрос
b) False	
	h- MI C
11. To increase the number of inputs and outputs of t	ne PLC, one can use expansion modules.
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 electromag	net when the relay is on.
(a) Armature	
b) Coil	
c) NO contact	3
d) NC contact	
14. Which of the following RLL applications is not n	ormally performed in early automation systems?
a) Owloff control of field devices	omany performed in early automation systems:
by 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 NO	
b) There is an electrical path through the NC	
Neither the NO or the NC contacts have an	
d) Both the NO and the NC contacts have an	1
16. How many levels does complex SCADA system	have?
a)One	
b)Three	
CFour	
	1
17. The functions of the SCADA systems performed Remote telemetry units	by using
b) SCADA master units	
Sensors, communication network	
d) All of the above	411
18. Where SCADA can be used?	
Mass transit	$\mathcal{N}(\mathcal{I})$
b) Traffic signals	art
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d) Albufgbeye	Drincical
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d) wantracturing	

19. The SCADA system performs	
Data acquisition	
b) Data presentation	
( c) Networked data communication	
d) All of the above	
20 is not a component of SCADA	A system
a) Datahase server	
C) Output system	
None of the above	
21. What is the standard form of RAID?	
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	
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	
c) 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	1
d) None of above	
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All of above d) None of above	20/1
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#### 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	unter 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 deci-	sions 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	f the PLC, one can use expansion modules.
a) True	
( False	
12. An example of discrete (digital) control is	
a) Varying the volume of a music system	W
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 electroma	gnet when the relay is on.
Armature	
b) Coil	
c) NO contact	
d) NC contact	
14. Which of the following RLL applications is not	normally performed in early automation systems?
a) On off control of field devices	
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 NC	
b) There is an electrical path through the NC	Contacts
c) Neither the NO or the NC contacts have a	
10 Both the NO and the NC contacts have an	
16. How many levels does complex SCADA system	n have?
a)One	
b)Three	
c)Four	
17. The functions of the SCADA eveters newfarmer	1 (
17. The functions of the SCADA systems performed (17) Remote telemetry units	a by using
SCADA master units	
Schsors, communication network	<b>A</b>
d) All of the above	
18. Where SCADA can be used?	
a) Mass transit	46 11
b) Traffic signals	
Manufacturing	Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS.
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19. The SCADA system performs	
a) Data acquisition	
b) Data presentation	
c) Networked data communication	
All of the above	
is not a component of SCADA sy	ystem
a) Database server	
Sparger controller	
c) Output system	
d) None of the above	
21. What is the standard form of RAID?	
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	
a) Master Machine Interface	
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	
c) RAID 1 and RAID 0	
d) None of the above	
24. What are the types of SCADA systems?	
<ul> <li>a) Monolithic, Networked</li> </ul>	
b) Monolithic, Distributed, Networked	
Monolithic, Distributed	
All of above	
25. The Redundant Array of Independent Disk is	used for
<ul> <li>a) Improvement of reliability</li> </ul>	
b) Improvement of performance	<b>(</b>
All of above	6114
None of above	'W') \
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8	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 QUESTION

Name of the student: 5 . Hanikardan

Year/sem : 7

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

- 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 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

Single normally-closed contact Normally-open contacts in parallel

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SSM Institute of Engineering and Technology Kuttathupatti Viliage, Sindalagundi 1976 Palani Road, Dindigul 62400.

8. What is the largest integer number that a PLC count	er function can reach if it uses a 16 hit register?
a) 32,768	or function can reach it it uses a 10 off register?
65,535	
c) 65,536	
d) 65,537	
	PLO' 4 CIPLE
9. The part that monitors the inputs and makes decision	is in a PLC is the CPU.
a) True	
6 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 the	PLC, one can use expansion modules.
a) True	
(b) False	
12. An example of discrete (digital) control is	
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	
	A and any also make a few to any
, , , , , , , , , , , , , , , , , , , ,	t when the relay is on.
Armature	
b) Coil	
c) NO contact	
d) NC contact	
14. Which of the following RLL applications is not not	mally performed in early automation systems?
a) On/off control of field devices	
b) 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 NO co	ntacts
There is an electrical path through the NC co	
c) Neither the NO or the NC contacts have an c	
d) Both the NO and the NC contacts have an ele	
16. How many levels does complex SCADA system ha	ve?
byThree	
CFour	
d)Two	
17. The functions of the SCADA systems performed by	turain o
a) Remote telemetry units	vusing
b) SCADA master units	y) .
Sensors, communication network	<b>A</b>
All of the above	(1) (1)
18. Where SCADA can be used?	714
Mass transit	(K.) (V
Traffic signals	wint
Manufacturing	Dr.D.SENTHIL KUMARAN, W.E., Ph.D., (NUS)
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19. The SCADA system performs	
a) Data acquisition	
b) Data presentation	
Networked data communication	
All of the above	
20. is not a component of SCADA	system
Database server	
(b) Sparger controller	
c) Output system	
d) None of the above	
21. What is the standard form of RAID?	4
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	<del> </del>
6) 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	
c) RAID 1 and RAID 0	
d) None of the above	
24. What are the types of SCADA systems?	
Monolithic, Networked	
b) Monolithic, Distributed, Networked	
Monolithic, Distributed	
d) All of above	216
25. The Redundant Array of Independent Disk	is used for
a) Improvement of reliability	
b) Improvement of performance	
c) All of above	
d) None of above	(h)
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5 3	Ot.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
4 ( ) Q	Principal
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S. S	Kuttathupatti Village, Sindalagundu (Po),
the directing and Joe The College of	Palani Road, Dindigul - 624 002.
	Palati Road, Dindigut- 024 002.



#### Department of Electrical and Electronics Engineering

#### STUDENT FEEDBACK FORM

Name of the Student: VANAJA . 6

Year/Sem: 1 1 N

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			_			

Secting and Technology of the section of the sectio Faculty incharge

Or.D.SENTHIL KUMARAN, M.E., Ph.D., (KUS)

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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:

Date:

3.3.23

Dear Student,

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S.No Cr	Criteria		Rating				
		Excellent	Very good	Good	Fair	Satisfactory	
1	Course content						
2	Skill development		~				
3	Motivation		~				
4	Regularity and punctuality of trainer			<b>&gt;</b>	-		
5	Coverage of syllabus		\ <u></u>	,			
6	Interaction		~				
7	Individual attention						
8	Outcome	- 5811	V				
9	Other suggestions		14	+			

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DI.D. SENTHIL KUMARAN, W.E., Ph.D., (NUS) Principal

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#### Department of Electrical and Electronics Engineering

#### STUDENT FEEDBACK FORM

Name of the Student:	Arun	Kuonan
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Year/Sem:  $\frac{1}{1}$  /  $\frac{1}{2}$  Date:  $\frac{1}{2}$  /  $\frac{1}{2}$   $\frac{1}{3}$ 

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						
2	Skill development						
3	Motivation		<b></b>				
4	Regularity and punctuality of trainer	_					
5	Coverage of syllabus		~				
6	Interaction		~				
7	Individual attention	1					
8	Outcome		1				
9	Other suggestions					0	

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#### Department of Electrical and Electronics Engineering

#### STUDENT FEEDBACK FORM

Name of the Student: Kathlin Nisha Year/Sem:  $\pi/iV$ 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	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	Ren -					
9	Other suggestions			-			

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Date:10/03/2023



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CENTRE HEAD STEPHEN GASPAR A

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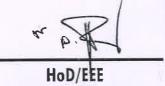
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Dr.D.SENTHIL KUMARAN

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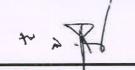
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