SYLLABUS/ CURRICULUM



(Approved by AICTE & Affiliated to Anna University, Chennai)

City Office: 10, Pandian Saraswathi St., Sivagami Nagar, Narayanapuram, Madurai - 625 014. Telefax- 0452 2682338, Mobile: 98423-02628

Department of Electrical And Electronics Engineering

Academic Year 2021-2022

OBJECTIVE OF THE COURSE

- Learn the fundamental concepts of industrial automation, including the role of PLCs and SCADA systems in controlling and monitoring industrial processes.
- Learn how to establish communication links between PLCs and SCADA systems using various communication protocols (such as Modbus, OPC, etc.)
- Recognize the importance of cybersecurity in PLC and SCADA systems and learn best practices for securing industrial control systems against cyber threats and vulnerabilities.
- Prepare for industry-standard certifications in PLC and SCADA technologies to enhance career prospects and demonstrate proficiency to potential employers.

CHAPTER 1:

Introduction to PLC and SCADA: Overview of PLC and SCADA systems-Importance and applications in industrial automation-Evolution and historical background-Fundamentals of PLC-Basic components of a PLC system (CPU, I/O modules, etc.)-PLC programming languages (Ladder Logic, Function Block Diagram, etc.)-Input and output modules-Memory organization

CHAPTER 2:

PLC Programming: Programming fundamentals (contacts, coils, timers, counters, etc.)-Developing simple ladder logic programs-Advanced programming techniques (analog input/output, data handling, etc.)

CHAPTER 3:

SCADA Basics: Introduction to SCADA software- Components of a SCADA system (RTUs, HMIs, communication protocols, etc.)- Role of SCADA in industrial monitoring and control-SCADA Configuration and Design: Creating and configuring SCADA projects- Graphical user interface (GUI) design- Alarm management and event handling- Historical data logging and trending

CHAPTER 4:

PLC-SCADA Integration: Communication protocols between PLC and SCADA systems (OPC, Modbus, etc.)- Establishing communication links- Data exchange between PLC and SCADA

CHAPTER 5:

Future Trends and Emerging Technologies: Industry 4.0 and the role of PLC and SCADA in smart manufacturing- Internet of Things (IoT) integration with PLC and SCADA systems-Predictive maintenance and analytics

OUTCOMES:

- Acquire hands-on experience in PLC programming and SCADA configuration, enabling you to develop, troubleshoot, and maintain industrial control systems effectively.
- Develop the ability to analyze complex industrial automation problems, identify root causes, and implement effective solutions using PLC and SCADA technologies.
- Learn how to integrate PLCs and SCADA systems seamlessly to create comprehensive control and monitoring solutions for industrial applications.

Total: 35 hours

Course Coordinator

HOD/EEE



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Madurai - Sivagangai Highway, Arasanoor, Thirumansolai Post, Sivagangai Dt. - 630 561, Tamilnadu Mobile : 9842102628, 7373002628 Email: info@psyec.edu.in Website : www.psyec.edu.in

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Department of Electrical And Electronics Engineering

Academic Year 2021-2022

VACEE2122PLCSC-PLC SCADA

Course Schedule

Date	Time	TOPICS
	9.00 am to 12.30 pm	Introduction to PLC and SCADA: Overview of PLC and SCADA systems-Importance and applications in industrial automation-Evolution and historical background-Fundamentals of
07/02/2 022	1.00 pm to 5.00 pm	PLC-Basic components of a PLC system (CPU, I/O modules, etc.)-PLC programming languages (Ladder Logic, Function Block Diagram, etc.)-Input and output modules-Memory organization
08/02/2 022	9.00 am to 12.30 pm	PLC Programming: Programming fundamentals (contacts, coils, timers, counters, etc.)- Developing simple ladder logic programs-Advanced programming techniques (analog
	1.00 pm to 5.00 pm	input/output, data handling, etc.)
09/02/2	9.00 am to 12.30 pm	SCADA Basics: Introduction to SCADA software- Components of a SCADA system (RTUs, HMIs, communication protocols, etc.)- Role of SCADA in industrial monitoring and control-SCADA Configuration and Design: Creating and configuring SCADA projects- Graphical user
	1.00 pm to 5.00 pm	interface (GUI) design- Alarm management and event handling- Historical data logging and trending
10/02/2	9.00 am to 12.30 pm	PLC-SCADA Integration: Communication protocols between PLC and SCADA systems (OPC, Modbus, etc.)- Establishing communication links- Data exchange between PLC and
022	1.00 pm to 5.00 pm	SCADA
11/02/2	9.00 am to 12.30 pm	Future Trends and Emerging Technologies: Industry 4.0 and the role of PLC and SCADA in smart manufacturing- Internet of Things (IoT) integration with PLC and SCADA systems-
022	1.00 pm to 5.00 pm	Predictive maintenance and analytics

Total Hours 35

Tea Break: 10:40 am to 10:55am & 02:45 pm to 15:00 pm

Lunch Break: 12:30pm to 01:00pm

Course Coordinator

HOD/EEE



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Academic Year 2021 - 2022

One page Report

Name of the course

: PLC SCADA

Development Course Code: VACEE2122PLCSC **Course Coordinator**

: Mr.S.Senthil Kumar

Date/Duration

: 07.02.2022-11.02.2022— 35 hours

I here affirm that the Second Year students of strength 15 have been taught the valueadded course title "PLC SCADA" as per the syllabus and completed within the stipulated time duration.

I confirm that the value-added course titled "PLC SCADA" has been conducted in the beginning of the semester and course delivery along with the attendance of the students was recorded.

I confirmed that all the students were actively participated in the course and the eligible students were certified for the course.

Mr.S.Senthil Kumar

AP/EEE

Course Co-Ordinator

Pandimeena,

AP/EEE

Head of the Department

Principal

Dr. R. RAJA M.E., Ph.D., PRINCIPAL PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE rasanoct, Thirimansolai P.O-630 56

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ASSESSMENT PROCEDURE



(Approved by AiCTE & Affiliated to Anna University, Chennai)

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Department of Electrical And Electronics Engineering

Academic Year 2021-2022

VACEE2122PLCSC-PLC SCADA

Assessment Questions with Answer

- 1. Which of the following is NOT a part of a PLC?
 - A) CPU
 - B) Memory
 - C) Actuator
 - D) Input/Output Modules

Answer: C) Actuator

- 2. In a PLC, what is the main purpose of the CPU?
 - A) To control the flow of data
 - B) To execute control instructions
 - C) To store user programs
 - D) To provide power to the system

Answer: B) To execute control instructions

- 3. Which programming language is commonly used in PLCs?
 - A) Python
 - B) Ladder Logic
 - C) Java
 - D) C++

Answer: B) Ladder Logic

- 4. What does the acronym PLC stand for?
 - A) Programmable Logic Circuit
 - B) Programmable Logic Controller
 - C) Programmed Linear Controller
 - D) Process Logic Control

Answer: B) Programmable Logic Controller

- 5. What is the primary function of a PLC in industrial automation?
 - A) Data analysis
 - B) Internet connectivity

- C) Real-time process control
- D) Graphics display

Answer: C) Real-time process control

- 6. Which component of a SCADA system is responsible for data visualization?
 - A) RTU (Remote Terminal Unit)
 - B) HMI (Human-Machine Interface)
 - C) PLC (Programmable Logic Controller)
 - D) DCS (Distributed Control System)

Answer: B) HMI (Human-Machine Interface)

- 7. SCADA systems, what does the acronym RTU stand for?
 - A) Remote Terminal Unit
 - B) Real-time Unit
 - C) Relay Terminal Unit
 - D) Remote Transmission Unit

Answer: A) Remote Terminal Unit

- 8. Which of the following best describes SCADA?
 - A) A hardware platform for automation
 - B) A system for monitoring and controlling industrial processes
 - C) A programming language for PLCs
 - D) A database management system

Answer: B) A system for monitoring and controlling industrial processes

- 9. Which protocol is commonly used in SCADA systems for communication between devices?
 - A) HTTP
 - B) FTP
 - C) Modbus
 - D) SMTP

Answer: C) Modbus

- 10. What is the main advantage of using SCADA in industrial automation?
 - A) Lower hardware costs
 - B) Enhanced real-time monitoring and control
 - C) Simpler programming
 - D) Improved internet security

Answer: B) Enhanced real-time monitoring and control



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Department of Electrical And Electronics Engineering

Academic Year 2021-2022

VACEE2122PLCSC- PLC SCADA

Assessment Test Paper

REGISTER NUMBER: 9/20 20/0 5009 NAME OF THE STUDENT: S. Sanjay

- 1. Which of the following is NOT a part of a PLC?
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 - D) Graphics display



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B) Enhanced real-time monitoring and control
C) 8 impler programming
D) Improved internet security

Pandian Saraswathi yadav Engineering College, Arasanoor - 630561 Department of Electrical and Electronics Engineering

Student Performance Sheet

Academic Year

: 2021-2022

Cource Code

: VACEE2122PLCSC

Course Name

: PLC SCADA

Duration of hours

: 35

Period of Course : 07.2.2022-11.2.2022

	Assessme	nt Mark		
Sl. No	Register Number	Student Name	Marks	
1	912020105001	S.BOSE	88	
2	912020105002	M.DHANAPRAKASH	86	
. 3	912020105003	D.DHARINISHRI "	85	
4	912020105005	D.DINESHKUMAR	84	
5	912020105006	P. GOBT	83	
. 6	912020105007	P.GURUPRASATH	82	
7	912020103008	MIPRIYADHARSHINI	75	
8	912020105009	S.SANJAY.	80	
9	912020105010	B.SANTHOSHINI	81	
10	912020105011	P.SWATHI	82	
11	912020105012	A.THANYEER AHAMED	83	
12	912020105301	SATAYSETHUPATHI	85	
13	91202 0105302	K-MOHA NASUNDARAM	86	
14	912020105304	A:PRAGALATHAN	87	
15	91202 Nos 305	RSATHYA	8-8	



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Department of Electrical And Electronics Engineering

Academic Year 2021-2022

VACEE2122PLCSC-PLC SCADA

ASSESSMENT MODE

In order to get a certificate for this course, the students should satisfy the following constraints

Attendance : 75 %

Assessment Question : MCQ pattern

Assessment Mark : Greater than or equal to 50%

Course Coordinator

HOD/EEE

STUDENTS ATTENDANCE

Pandian Saraswathi yadav Engineering College, Arasanoor -630561 Department of Electrical and Electronics Engineering

Student Attendance Sheet

Cource Code
Course Name
Duration of hours
Period of Course

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	Attendand	ce Sheet	Date:						
Sl. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm	
1	912020105001	S.BOSE	Bose . \$	Bose. A.	Bose B	Bose . B.	Bose st.	Bose A	
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Pandian Saraswathi yadav Engineering College, Arasanoor -630561
Department of Electrical and Electronics Engineering
Student Attendance Sheet

Academic Year
Cource Code
Course Name
Duration of hours
Period of Course

2021-2022

VACEE2122PLCSC

PLC SCADA

35

07.2.2022-11.2.2022

	Attendand	e Sheet	Date:						
SI. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm	
1	912020105001	S.BOSE	Bese	Bese	Dose	Bose	Bose	Rose	
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Pandian Saraswathi yadav Engineering College, Arasanoor -630561
Department of Electrical and Electronics
Engineering
Student Attendance Sheet

Academic Year
Cource Code
Course Name
Duration of hours
Period of Course

. 2021-2022
. VACEE2122PLCSC
. PLC SCADA
. 35
. 07.2.2022-11.2.2022

	Attendand			D	ate:			
SI. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
1	912020105001	S.BOSE	Buse	Bere	Rose	Beer	Piere	Biose
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Pandian Saraswathi yadav Engineering College,Arasanoor -630561 Department of Electrical and Electronics Eng<mark>ineering Student Attendance Sheet</mark>

Academic Year
Cource Code
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: 2021-2022
: VACEE2122PLCSC
: PLC SCADA
: 35
: 07.2.2022-11.2.2022

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1	912020105001	S.BOSE	Sole	Dose	Prose	Reese	Biose	Ries	
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15	912020105305	R.SATHYA	terly	Certas	Confin	certin	(A)	6 or Days	

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Student Attendance Sheet

Academic Year : 2021-2022

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3	912020105003	D.DHARINISHRI	Phoneni	Cheigni	chast	phorsy	Thatsi	Om."	
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2	912020105002	M.DHANAPRAKASH	Phone	Ohun	Dhu	phone	Share	plrer
3	912020105003	D.DHARINISHRI	Dhan	Oh	Din	KARI	m	ma
4	912020105005	L.DINESHKUMAR	mpen	Doub	Dive	Pres	Dinch	mich
5	912020105006	P.GOBI	Con bei	Coch	Cook	Lach	Goh	(mo
6	912020105007	P.GURUPRASATH	mer un	MUDI	aus	Turn	Chuni	train
7	912020105008	M.PRIYADHARSHINI	Da. Uu	100 194	Priya	Den 4u	Daysya	20014
8	912020105009	S.SANJAY	RADION	euro	Call	laund	Sunto	Oak
9	912020105010	B.SANTHOSHINI	Catto	Quetto	Carl	buch	Quale	cu
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12	912020105301	S.AJAYSETHUPATHI	Ajay	Alay	Ame	Alau	Alau	Alak
13	912020105302	K.MOHANASUNDARAM	Mohans	W.	Mud	do	ha	Maria
14	912020105304	A.PRAGALATHAN	Balla	Dagge	trage	baga	Bare	Drag
15	912020105305	R.SATHYA	gerthen	Se No	Colle	1 on hour	C. K.	an hik

Course coordinator

Enrollment Student Name List

Pandian Saraswathi yadav Engineering College, Arasanoor -630561

Department of Electrical and Electronics Engineering

Student Registration Sheet

Academic Year

: 2021-2022

Cource Code

: VACEE2122PLCSC

Course Name

: PLC SCADA

Duration of hours : 35

Period of Course

: 07.2.2022-11.2.2022

	Enrolled student list				
Signature	Student Name	Register Number	Sl. No		
Por	S.BOSE	912020105001	1		
m. Dhanapra Kash	M.DHANAPRAKASH	912020105002	2		
D. Dharani shri	D.DHARINISHRI	912020105003	3		
L. Dinesh Bumar	L.DINESHKUMAR	912020105005	4		
P. Groni	P.GOBI	912020105006	5		
gwrynasah	P.GURUPRASATH	912020105007	6		
Dissarchie	M.PRIYADHARSHINI	912020105008	7		
duni	S.SANJAY	912020105009	. 8		
Lantherhui	B.SANTHOSHINI	912020105010	9		
Qualti'	P.SWATHI	912020105011	10		
Therew	A.THANVEER AHAMED	912020105012	11		
duj	S.AJAYSETHUPATHI	912020105301	12		
Mohanzurdharim	K.MOHANASUNDAR AM	912020105302	13		
Molenther,	A.PRAGALATHAN	912020105304	14		
Cattoria	R.SATHYA	912020105305	15		

Course coordinator

MODEL CERTIFICATES



Approved by AICTE & Affiated to Anna University, Chennai. Arasanoor, Thirumansolai Post, Sivagangai – Madurai Highway, Tamilnadu - 630 561

Value added course on

PLC SCADA

Organized by

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

This is Certify that	P. SWATHI.	From Second year
EEE has participated in	n the value-added course on PLC SCADA org	ganized by the Department of
Electrical And Electronic	cs Engineering From 7.02.2022 to 11.02.2022 (35	5 Hours) at Pandian Saraswathi
Yadav Engineering Colle	ege, Sivagangai.	

Mrs.S.Pandimeena AP/EEE

Head of the Department

Dr.R.RAJA Principal

PRAJA Digitally signed by R RAJA Date: 2024.07.15 15:31:09 +05'30'



Approved by AICTE & Affiated to Anna University, Chennai. Arasanoor, Thirumansolai Post, Sivagangai – Madurai Highway, Tamilnadu - 630 561

Value added course on

PLC SCADA

Organized by

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

This is Certify that	<u>.</u>	S. BOSE	4		From Second year
EEE has participated in the	value-added co	ourse on PLC S	SCADA d	organized by	the Department of
Electrical And Electronics En	gineering From	7.02.2022 to 11.	.02.2022 (35 Hours) at	Pandian Saraswathi
Yadav Engineering College, S	ivagangai.				

Mrs.S.Pandimeena

Head of the Department

Dr.R.RAJA Principal

Pigitally signed by R RAJA Date:

2024.07.15
15:31:29
+05'30'



Approved by AICTE & Affiated to Anna University, Chennai. Arasanoor, Thirumansolai Post, Sivagangai – Madurai Highway, Tamilnadu - 630 561

Value added course on

PLC SCADA

Organized by

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Mrs.S.Pandimeena AP/EEE

Head of the Department

Dr.R.RAJA Principal

Digitally signed by R RAJA

Date: 2024.07.15

15:31:49 +05'30'