

SYLLABUS/
CURRICULUM



PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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

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

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

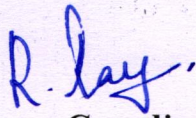
CHAPTER 5:

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

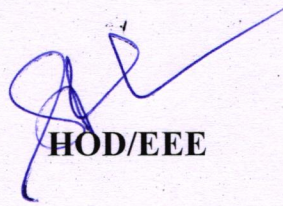
OUTCOMES:

- 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



PRINCIPAL



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Department of Electrical And Electronics Engineering

Academic Year 2021-2022

VACEE2122PLCSC- PLC SCADA

Course Schedule

Date	Time	TOPICS
07/02/2022	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 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
	1.00 pm to 5.00 pm	
08/02/2022	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 input/output, data handling, etc.)
	1.00 pm to 5.00 pm	
09/02/2022	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 interface (GUI) design- Alarm management and event handling- Historical data logging and trending
	1.00 pm to 5.00 pm	
10/02/2022	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 SCADA
	1.00 pm to 5.00 pm	
11/02/2022	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- Predictive maintenance and analytics
	1.00 pm to 5.00 pm	

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

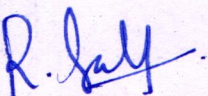
One page Report

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 value-added course title “**PLC SCADA**” as per the syllabus and completed within the stipulated time duration.

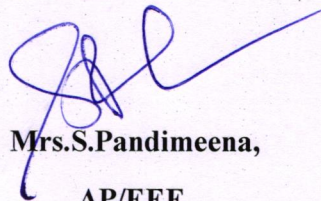
I confirm that the value-added course titled “**PLC SCADA**” has been conducted in the beginning of the semester and course delivery along with the attendance of the students was recorded.

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

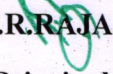
AP/EEE

Course Co-Ordinator


Mrs.S.Pandimeena,

AP/EEE

Head of the Department


Dr.R.RAJA,
Principal

Dr. R. RAJA M.E., Ph.D.,
PRINCIPAL
PANDIAN SARASWATHI YADAV
ENGINEERING COLLEGE
Arasanoor, Thirumansolai P.O-630 561
Sivagangai Dist. Tamil Nadu

ASSESSMENT PROCEDURE



PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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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: 912020105009
NAME OF THE STUDENT: S. Sanjay



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D) Input/Output Modules
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Pandian Saraswathi yadav Engineering College, Arasankoor -630561

Department of Electrical and Electronics Engineering

Student Performance Sheet

Academic Year : 2021-2022
Course Code : VACEE2122PLCSC
Course Name : PLC SCADA
Duration of hours : 35
Period of Course : 07.2.2022-11.2.2022

Assessment Mark			Marks
Sl. No	Register Number	Student Name	
1	912020105001	S. BOSE	88
2	912020105002	M. DHANAPRAKASH	86
3	912020105003	D. DHARINISHRI	85
4	912020105005	D. DINESHKUMAR	84
5	912020105006	P. GOBI	82
6	912020105007	P. GURUPRASATH	82
7	912020105008	M. PRIYADHARSHINI	75
8	912020105009	S. SANJAY	80
9	912020105010	B. SANTHOSHINI	81
10	912020105011	P. SWATHI	82
11	912020105012	A. THANVEER AHAMED	83
12	912020105301	S. AJAYSETHUPATHI	85
13	912020105302	K. MOHANASUNDARAM	86
14	912020105304	A. PRAGALATHAN	87
15	912020105305	R. SATHYA	88

R. Jay

Course coordinator

J. S. S.

HOD/EEE

PRINCIPAL



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Department of Electrical And Electronics Engineering

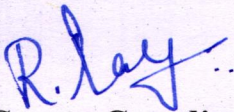
Academic Year 2021-2022

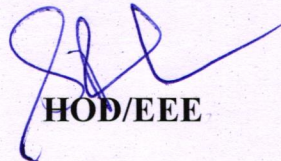
VACEE2122PLCSC- PLC SCADA

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

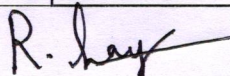

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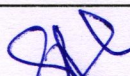
STUDENTS ATTENDANCE

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

Academic Year : 2021-2022
 Course Code : VACEE2122PLCSC
 Course Name : PLC SCADA
 Duration of hours : 35
 Period of Course : 07.2.2022-11.2.2022

Attendance 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. S	Bose. S	Bose. S	Bose. S	Bose. S	Bose. S
2	912020105002	M.DHANAPRAKASH	Dhanapra	Dhanapra	Dhanapra	Dhanapra	Dhanapra	Dhanapra
3	912020105003	D.DHARINISHRI	Dharini	Dharini	Dharini	Dharini	Dharini	Dharini
4	912020105005	L.DINESHKUMAR	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh
5	912020105006	P.GOBI	GOBI.P	GOBI.P	GOBI.P	GOBI.P	GOBI.P	GOBI.P
6	912020105007	P.GURUPRASATH	Guruprasath	Guruprasath	Guruprasath	Guruprasath	Guruprasath	Guruprasath
7	912020105008	M.PRIYADHARSHINI	Priya	Priya	Priya	Priya	Priya	Priya
8	912020105009	S.SANJAY	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay
9	912020105010	B.SANTHOSHINI	Santhoshini	Santhoshini	Santhoshini	Santhoshini	Santhoshini	Santhoshini
10	912020105011	P.SWATHI	Swathi	Swathi	Swathi	Swathi	Swathi	Swathi
11	912020105012	A.THANVEER AHAMED	Thanveer	Thanveer	Thanveer	Thanveer	Thanveer	Thanveer
12	912020105301	S.AJAYSETHUPATHI	Ajay	Ajay	Ajay	Ajay	Ajay	Ajay
13	912020105302	K.MOHANASUNDARAM	Mohana	Mohana	Mohana	Mohana	Mohana	Mohana
14	912020105304	A.PRAGALATHAN	Pragalathan	Pragalathan	Pragalathan	Pragalathan	Pragalathan	Pragalathan
15	912020105305	R.SATHYA	Sathya	Sathya	Sathya	Sathya	Sathya	Sathya


 Course coordinator


 HOD/EEE

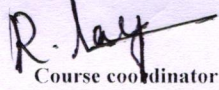

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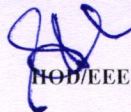
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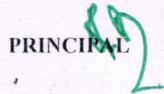
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9	912020105010	B.SANTHOSHINI	Santhosh	Santhosh	Santhosh	Santhosh	Santhosh	Santhosh
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15	912020105305	R.SATHYA	Sathya	Sathya	Sathya	Sathya	Sathya	Sathya


Course coordinator

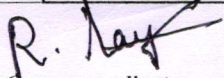

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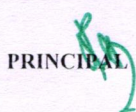
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6	912020105007	P.GURUPRASATH	Guru	Guru	Guru	Guru	Guru	Guru
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13	912020105302	K.MOHANASUNDARAM	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan
14	912020105304	A.PRAGALATHAN	Praga	Praga	Praga	Praga	Praga	Praga
15	912020105305	R.SATHYA	Sathya	Sathya	Sathya	Sathya	Sathya	Sathya


Course coordinator


HOD/EEE


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3	912020105003	D.DHARINISHRI	Dharini	Dharini	Dharini	Dharini	Dharini	Dharini
4	912020105005	L.DINESHKUMAR	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh
5	912020105006	P.GOBI	Gobi	Gobi	Gobi	Gobi	Gobi	Gobi
6	912020105007	P.GURUPRASATH	Guru	Guru	Guru	Guru	Guru	Guru
7	912020105008	M.PRIYADHARSHINI	Priya	Priya	Priya	Priya	Priya	Priya
8	912020105009	S.SANJAY	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay
9	912020105010	B.SANTHOSHINI	Santhoshini	Santhoshini	Santhoshini	Santhoshini	Santhoshini	Santhoshini
10	912020105011	P.SWATHI	Swathi	Swathi	Swathi	Swathi	Swathi	Swathi
11	912020105012	A.THANVEER AHAMED	Thanveer	Thanveer	Thanveer	Thanveer	Thanveer	Thanveer
12	912020105301	S.AJAYSETHUPATHI	Ajay	Ajay	Ajay	Ajay	Ajay	Ajay
13	912020105302	K.MOHANASUNDARAM	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan
14	912020105304	A.PRAGALATHAN	Pragalathan	Pragalathan	Pragalathan	Pragalathan	Pragalathan	Pragalathan
15	912020105305	R.SATHYA	Sathya	Sathya	Sathya	Sathya	Sathya	Sathya

R. Jay
Course coordinator

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HOD/EEE

[Signature]
PRINCIPAL

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

Student Attendance Sheet

Academic Year : 2021-2022
Course Code : VACEE2122PLCSC
Course Name : PLC SCADA
Duration of hours : 35
Period of Course : 07.2.2022-11.2.2022

Attendance 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	Bose	Bose	Bose	Bose
2	912020105002	M.DHANAPRAKASH	Dhanu	Dhanu	Dhanu	Dhanu	Dhanu	Dhanu
3	912020105003	D.DHARINISHRI	Dharini	Dharini	Dharini	Dharini	Dharini	Dharini
4	912020105005	L.DINESHKUMAR	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh
5	912020105006	P.GOBI	Gobi	Gobi	Gobi	Gobi	Gobi	Gobi
6	912020105007	P.GURUPRASATH	Guruprasath	Guruprasath	Guruprasath	Guruprasath	Guruprasath	Guruprasath
7	912020105008	M.PRIYADHARSHINI	Priya	Priya	Priya	Priya	Priya	Priya
8	912020105009	S.SANJAY	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay
9	912020105010	B.SANTHOSHINI	Santhoshini	Santhoshini	Santhoshini	Santhoshini	Santhoshini	Santhoshini
10	912020105011	P.SWATHI	Swathi	Swathi	Swathi	Swathi	Swathi	Swathi
11	912020105012	A.THANVEER AHAMED	Thanveer	Thanveer	Thanveer	Thanveer	Thanveer	Thanveer
12	912020105301	S.AJAYSETHUPATHI	Ajay	Ajay	Ajay	Ajay	Ajay	Ajay
13	912020105302	K.MOHANASUNDARAM	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan
14	912020105304	A.PRAGALATHAN	Pragalathan	Pragalathan	Pragalathan	Pragalathan	Pragalathan	Pragalathan
15	912020105305	R.SATHYA	Sathya	Sathya	Sathya	Sathya	Sathya	Sathya

R. Jay
Course coordinator

[Signature]
HOD/EEE

[Signature]
PRINCIPAL

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

Student Attendance Sheet

Academic Year : 2021-2022
Course Code : VACEE2122PLCSC
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Attendance 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	Bes	Bace	Bale	Bese	Boss
2	912020105002	M.DHANAPRAKASH	Phney	Phus	Phu	Phene	Phera	Phar
3	912020105003	D.DHARINISHRI	Phon	Ph	Ph	Pha	Pha	Pha
4	912020105005	L.DINESHKUMAR	Phet	Phel	Phel	Phel	Dingh	Dish
5	912020105006	P.GOBI	Gobu	Gou	Gouh	Goum	Gouh	Gouh
6	912020105007	P.GURUPRASATH	Gurup	Guru	Gur	Gurm	Gurm	Gurm
7	912020105008	M.PRIYADHARSHINI	Priya	Priya	Priya	Priya	Priya	Priya
8	912020105009	S.SANJAY	Sanjay	Santa	Sanje	Santa	Santa	Santa
9	912020105010	B.SANTHOSHINI	Santha	Santha	San	San	San	San
10	912020105011	P.SWATHI	Swath	Swath	Swath	Swath	Swath	Swath
11	912020105012	A.THANVEER AHAMED	Thaan	Thaa	Thaa	Thaa	Thaa	Thaa
12	912020105301	S.AJAYSETHUPATHI	Ajay	Ajay	Ajay	Ajay	Ajay	Ajay
13	912020105302	K.MOHANASUNDARAM	Mohany	Moh	Moh	Moh	Moh	Moh
14	912020105304	A.PRAGALATHAN	Praga	Praga	Praga	Praga	Praga	Praga
15	912020105305	R.SATHYA	Sathy	Sathy	Sathy	Sathy	Sathy	Sathy

R. Jay
Course coordinator

H. V. E. E.

PRINCIPAL

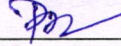
Enrollment
Student Name
List

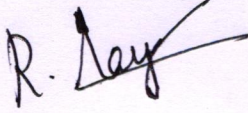
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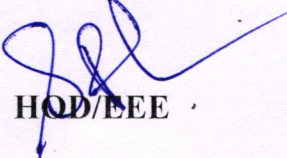
Department of Electrical and Electronics Engineering

Student Registration Sheet

Academic Year : 2021-2022
Course Code : VACEE2122PLCSC
Course Name : PLC SCADA
Duration of hours : 35
Period of Course : 07.2.2022-11.2.2022

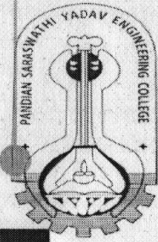
Enrolled student list			Signature
Sl. No	Register Number	Student Name	
1	912020105001	S.BOSE	
2	912020105002	M.DHANAPRAKASH	m. Dhanaprakash
3	912020105003	D.DHARINISHRI	D. Dharanishri
4	912020105005	L.DINESHKUMAR	L. Dinesh Kumar
5	912020105006	P.GOBI	P. Gopi
6	912020105007	P.GURUPRASATH	guruprasath
7	912020105008	M.PRIYADHARSHINI	Priyadharsini
8	912020105009	S.SANJAY	Sanjay
9	912020105010	B.SANTHOSHINI	Santhoshini
10	912020105011	P.SWATHI	Swathi
11	912020105012	A.THANVEER AHAMED	Thanveer
12	912020105301	S.AJAYSETHUPATHI	Ajay
13	912020105302	K.MOHANASUNDAR AM	Mohansundharan
14	912020105304	A.PRAGALATHAN	Pragalathan
15	912020105305	R.SATHYA	Sathya


Course coordinator


HOD/EEE


PRINCIPAL

MODEL
CERTIFICATES



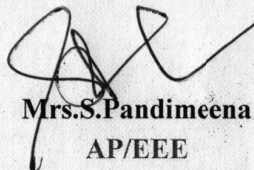
PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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

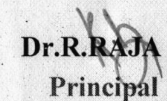
Value added course on
PLC SCADA
Organized by
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

CERTIFICATE

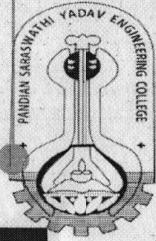
This is Certify that P. SWATHI From **Second year**
EEE has participated in the value-added course on **PLC SCADA** organized by the Department of
Electrical And Electronics Engineering From 7.02.2022 to 11.02.2022 (35 Hours) at Pandian Saraswathi
Yadav Engineering College, Sivagangai.


Mrs.S.Pandimeena
AP/EEE

Head of the Department


Dr.R.RAJA
Principal

R RAJA
Digitally signed
by R RAJA
Date: 2024.07.15
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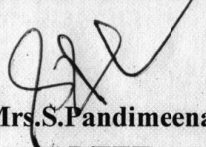
PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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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 **S. BOSE** From **Second year**
EEE has participated in the value-added course on **PLC SCADA** organized by the Department of
Electrical And Electronics Engineering From 7.02.2022 to 11.02.2022 (35 Hours) at Pandian Saraswathi
Yadav Engineering College, Sivagangai.

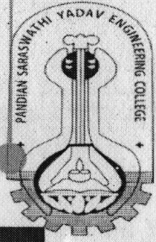

Mrs.S.Pandimeena
AP/EEE

Head of the Department


Dr.R.RAJA
Principal

R
RAJA

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by R RAJA
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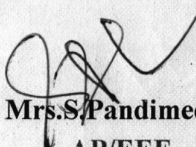
PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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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 **M. DHANA PRAKASH**..... From **Second year
EEE** has participated in the value-added course on **PLC SCADA** organized by the Department of
Electrical And Electronics Engineering From 7.02.2022 to 11.02.2022 (35 Hours) at Pandian Saraswathi
Yadav Engineering College, Sivagangai.


Mrs.S/Pandimeena
AP/EEE

Head of the Department


Dr.R.RAJA
Principal

R
RAJA

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by R RAJA
Date: 2024.07.15
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