

Capacity Development and skills Enhancement Activity

AWARENESS OF TRENDS IN TECHNOLOGY

PLC AND SCADA SYSTEMS

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RAJIV GANDHI COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE and Affiliated to Pondicherry University)

(Accredited with 'A' Grade by NAAC)

(Sponsored by Sri Balaji Educational and Charitable Public Trust)

Pondy - Cuddalore Main Road, Kirumampakkam, Puducherry - 607 403.

Date: 10.10.2019

From

Head of the Department

Department of EEE

Rajiv Gandhi College of Engineering and Technology

Kirumampakkam, Puducherry - 607 403.

To

The Principal

Rajiv Gandhi College of Engineering and Technology

Kirumampakkam, Puducherry - 607 403.

Respected Sir,

Subject: Request for permission to conduct Two days Workshop on 17.10.2019 to 18.10.2019

We have planned to conduct a Two days Workshop on "PLC and SCADA Systems" from 17.10.2019 to 18.10.2019. The aforementioned workshop will be offered to the III and IV Year students of the EEE Department. I kindly request you to grant permission to conduct this program. Enclosed are the details of the syllabus for the workshop and the day-wise schedule for your kind perusal and approval.

Thanking you,



Yours sincerely,

R. Hari
10/10/19

HEAD OF THE DEPARTMENT
Electrical & Electronics Engg.
Rajiv Gandhi College of Engg. & Tech.
Puducherry-607 403

Dr. E. VIJAYA KRISHNA RAPAKA
B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras)
M.I.S.T.E., F.I.I.P.E., M.C.S.I.M.C.I.I.,
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2019 – 20 (EVEN SEM)

No: RGCET/EEE/Circular/2019-20/

Date: 14.10.2019

CIRCULAR

We are excited to inform you about a two-day workshop on “PLC and SCADA Systems from 17.10.2019 to 18.10.2019, organized exclusively for our III & IV Year students This workshop is designed to provide both theoretical knowledge and practical skills essential for mastering these advanced industrial automation technologies.

Resource Person Details:

Mr.R.Ramkumar & Team,
Proprietor, ARRKAY Controls, Puducherry

Venue: Power Electronics Lab

All are invited



Copy to:

1. The Principal
2. Circulate to all Faculty Members and EEE students
3. Notice board / file

R. Hoopl

HOD / EEE

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

ORGANIZES WORKSHOP ON

PLC AND SCADA SYSTEMS

17.10.2019
&
18.10.2019

Mr.R.RAMKUMAR
Proprietor, ARRKAY Controls,
Puducherry

RESOURCE PERSON

Mr.S.SIVAKUMAR

WORKSHOP COORDINATOR

Dr.P.GOPALAKRISHNA

HOD / EEE

Dr.K.AYYAPPAN

VICE PRINCIPAL

Dr.E.VIJAYAKRISHNA RAPAKA

PRINCIPAL

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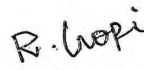
WORKSHOP SCHEDULE

"PLC AND SCADA SYSTEMS"

Date / Day	Session	Topic Covered	Speaker
17.10.2019	FN	Theory Session Introduction to PLCs Overview of PLC programming languages (Ladder Logic, Function Block Diagram, Structured Text, etc.).	Mr. R.Ramkumar
	AN	Practical exercises on creating and testing simple PLC programs and troubleshooting and debugging.	Mr. R.Ramkumar & Team
18.10.2029	FN	Overview of popular SCADA software, Creating graphical user interfaces (GUIs) and Data logging and alarm management	Mr. R.Ramkumar
	AN	Practical exercise: Integrating a PLC program with a SCADA application	Mr. R.Ramkumar & Team


Course Co-ordinator




Head of the Department

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Date :23.10.20219

WORKSHOP REPORT

“PLC AND SCADA SYSTEMS”

Date: 17.10.2019 to 18.10.2019

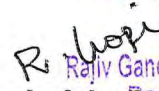
The Department of Electrical and Electronics Engineering conducted a two days workshop on “PLC and SCADA Systems” from 17.10.2019 to 18.10.2019. The event coordinator of the session is Mr.S.Sivakumar (Assistant Professor (Sr.Gr) of the Dept. of EEE). The sessions were conducted by Mr. Ramkumar R, Proprietor, ARRKAY Controls, Puducherry. A total of 34 students belong to the EEE department of 3rd and 4th year attended the workshop for two days.

The day 1 workshop began with an introduction to PLC and SCADA systems, highlighting their roles in industrial automation and control processes. Key concepts such as real-time data acquisition, monitoring, and control were discussed, emphasizing their importance in optimizing operational efficiency and reducing downtime. In the second session, students are engaged in practical PLC programming fundamentals using standard software. And the last session focused on SCADA architecture and functionalities.

On the second day of session students learn about advanced PLC programming techniques, including complex logic operations, timers, and counters. And students troubleshooted methodologies and practiced diagnosing and resolving common programming errors. And in the last session, discussions highlighted challenges faced during implementation and strategies for optimizing system performance.


Workshop Co-Ordinator




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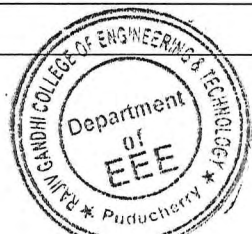
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Two days' Workshop on "PLC AND SCADA SYSTEMS"

LIST OF ENROLLED STUDENTS

Sl. No.	Register Number	Name of the Student	Year of Study
1	16TC0555	S.SANTHOSH	IV
2	16TE0401	AJITH N	IV
3	16TE0402	AJITHKUMAR M	IV
4	16TE0404	BALAJI M	IV
5	16TE0405	DEEPAK L	IV
6	16TE0408	MANO T	IV
7	16TE0409	MERLINE BENEDICTICIA DEVAKUMARI T	IV
8	16TE0410	MOHAMED ISMAIL A	IV
9	16TE0411	PAVADHARANI A	IV
10	16TE0412	RAMANI S	IV
11	16TE0415	SARAVANAN M	IV
12	16TEL007	SRINIVASAN.K	IV
13	17TE0401	APARNA RANJANY R	III
14	17TE0402	ARUNACHALAM R	III
15	17TE0403	BADMARAJ G	III
16	17TE0406	LAXMIPRIYANAYAK D	III
17	17TE0407	LUVEEN RITHISH C	III
18	17TE0408	MANIBHARATHI R	III
19	17TE0410	NISHANDHANI R	III
20	17TE0411	NIVETHA M	III
21	17TE0412	PRASHANTH T	III
22	17TE0413	SABARINATHAN M	III
23	17TE0414	SANJAY V	III



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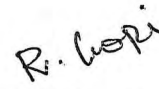
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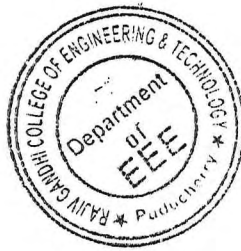
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24	17TE0415	SARAN P	III
25	17TE0416	SARASWATHY B	III
26	17TE0417	SHANMUGAVELAN N	III
27	17TE0418	SOWMIYA T	III
28	17TE0419	SUBASH CHANDRA BOSE C	III
29	17TE0420	SUNDARESHWARAN B	III
30	17TE0421	VEERAPANDIYAN V	III
31	17TEL009	ANANDH R	III
32	17TEL010	DURAI PANDIYAN S	III
33	17TEL011	KARTHICK RAJAN S	III
34	17TEL012	RAMKUMAR R	III


Workshop Co-ordinator


Head of the Department



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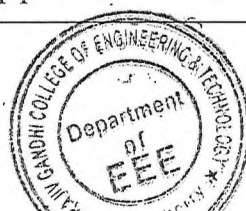
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Two Days Workshop on "PLC and SCADA Systems" (17.10.2019 & 18.10.2019)

DAY-WISE ATTENDANCE SHEET

Sl. No.	Register Number	Name of the Student	17.10.2019	18.10.2019	Total
1	16TC0555	S.SANTHOSH	P	P	2
2	16TE0401	AJITH N	P	P	2
3	16TE0402	AJITHKUMAR M	P	P	2
4	16TE0404	BALAJI M	P	P	2
5	16TE0405	DEEPAK L	P	P	2
6	16TE0408	MANO T	P	P	2
7	16TE0409	MERLINE BENEDICTICIA DEVAKUMARI T	P	P	2
8	16TE0410	MOHAMED ISMAIL A	P	P	2
9	16TE0411	PAVADHARANI A	P	P	2
10	16TE0412	RAMANI S	P	P	2
11	16TE0415	SARAVANAN M	P	P	2
12	16TEL007	SRINIVASAN.K	P	P	2
13	17TE0401	APARNA RANJANY R	P	P	2
14	17TE0402	ARUNACHALAM R	P	P	2
15	17TE0403	BADMARAJ G	P	P	2
16	17TE0406	LAXMIPRIYANAYAK D	P	P	2
17	17TE0407	LUVEEN RITHISH C	P	P	2
18	17TE0408	MANIBHARATHI R	P	P	2
19	17TE0410	NISHANDHANI R	P	P	2
20	17TE0411	NIVETHA M	P	P	2
21	17TE0412	PRASHANTH T	P	P	2



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22	17TE0413	SABARINATHAN M	P	P	2
23	17TE0414	SANJAY V	P	P	2
24	17TE0415	SARAN P	P	P	2
25	17TE0416	SARASWATHY B	P	P	2
26	17TE0417	SHANMUGAVELAN N	P	P	2
27	17TE0418	SOWMIYA T	P	P	2
28	17TE0419	SUBASH CHANDRA BOSE C	P	P	2
29	17TE0420	SUNDARESHWARAN B	P	P	2
30	17TE0421	VEERAPANDIYAN V	P	P	2
31	17TEL009	ANANDH R	P	P	2
32	17TEL010	DURAI PANDIYAN S	P	P	2
33	17TEL011	KARTHICK RAJAN S	P	P	2
34	17TEL012	RAMKUMAR R	P	P	2
Total No of Students			34	34	
Total No of Absent			-	-	
Total No of Present			34	34	
Staff Signature			<i>[Signature]</i>	<i>[Signature]</i>	

[Signature]
Workshop Co-ordinator



[Signature]
Head of the Department
HEAD OF THE DEPARTMENT
Electrical & Electronics Engg.
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[Signature]
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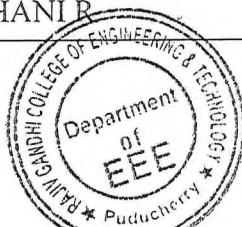
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

MARKS STATEMENT

Workshop Name	" PLC and SCADA Systems"
Resource Person (s)	Mr.Ramkumar R, Proprietor , ARRKAY Controls, Puducherry
Duration	17.10.2019 to 18.10.2019
Course Offered to	Dept.: EEE Year: III & IV

Sl. No.	Register Number	Name of the Student	Marks out of 100
1	16TC0555	S.SANTHOSH	80
2	16TE0401	AJITH N	80
3	16TE0402	AJITHKUMAR M	90
4	16TE0404	BALAJI M	90
5	16TE0405	DEEPAK L	80
6	16TE0408	MANO T	80
7	16TE0409	MERLINE BENEDICTICIA DEVAKUMARI T	90
8	16TE0410	MOHAMED ISMAIL A	80
9	16TE0411	PAVADHARANI A	80
10	16TE0412	RAMANI S	90
11	16TE0415	SARAVANAN M	90
12	16TEL007	SRINIVASAN.K	80
13	17TE0401	APARNA RANJANY R	90
14	17TE0402	ARUNACHALAM R	70
15	17TE0403	BADMARAJ G	90
16	17TE0406	LAXMIPRIYANAYAK D	90
17	17TE0407	LUVEEN RITHISH C	80
18	17TE0408	MANIBHARATHI R	80
19	17TE0410	NISHANDHANI R	90



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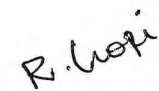
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20	17TE0411	NIVETHA M	90
21	17TE0412	PRASHANTH T	80
22	17TE0413	SABARINATHAN M	70
23	17TE0414	SANJAY V	80
24	17TE0415	SARAN P	80
25	17TE0416	SARASWATHY B	90
26	17TE0417	SHANMUGAVELAN N	80
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33	17TEL011	KARTHICK RAJAN S	80
34	17TEL012	RAMKUMAR R	70


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Workshop on : "PLC and SCADA Systems"

Date :

(17.10.2019 to 18.10.2019)

Multiple Choice Questions:

Name :

Register No :

Year / Sem :

1. What is the primary function of a PLC (Programmable Logic Controller) in industrial automation?

- A. Data visualization
- B. Real-time data acquisition
- C. Human-machine interface design
- D. Power distribution

2. Which programming language is commonly used for PLC programming?

- A. Python
- B. C++
- C. Ladder Logic
- D. HTML

3. What does SCADA stand for in industrial automation?

- A. Systematic Control and Data Acquisition
- B. Supervisory Control and Data Acquisition
- C. Sequential Control and Data Acquisition
- D. Software Control and Data Automation

4. What is the purpose of an HMI (Human-Machine Interface) in a SCADA system?

- A. To program PLCs
- B. To control industrial robots
- C. To monitor and interact with the industrial process
- D. To analyze data trends

5. Which of the following is NOT a component of a SCADA system?

- A. RTU (Remote Terminal Unit)
- B. PLC (Programmable Logic Controller)
- C. HMI (Human-Machine Interface)

D. PID Controller

6. In PLC programming, what does the term "Ladder Logic" refer to?

- A. A graphical programming language resembling relay logic diagrams
- B. A high-level programming language
- C. A machine learning algorithm
- D. An operating system for PLCs

7. What is the main advantage of using SCADA systems in industrial applications?

- A. Real-time data processing
- B. Cost reduction
- C. Energy efficiency
- D. Environmental sustainability

8. Which of the following is a typical application area for SCADA systems?

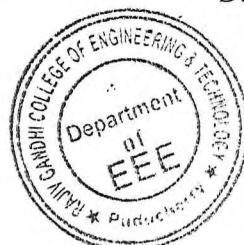
- A. Personal finance management
- B. Traffic control systems
- C. Mobile app development
- D. Water treatment plants

9. What is the purpose of data acquisition in SCADA systems?

- A. To control industrial processes
- B. To monitor environmental conditions
- C. To collect real-time data from sensors and devices
- D. To analyze historical data trends

10. Which of the following best describes the role of PLCs and SCADA systems in industrial automation?

- A. Controlling household appliances
- B. Optimizing manufacturing processes
- C. Managing social media platforms
- D. Designing architectural blueprints



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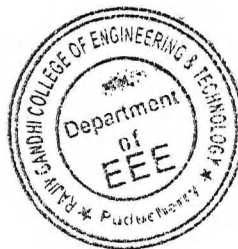
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ANSWER KEY :

1. B. Real-time data acquisition
2. C. Ladder Logic
3. B. Supervisory Control and Data Acquisition
4. C. To monitor and interact with the industrial process
5. D. PID Controller
6. A. A graphical programming language resembling relay logic diagrams
7. A. Real-time data processing
8. D. Water treatment plants
9. C. To collect real-time data from sensors and devices
10. B. Optimizing manufacturing processes



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RAJIV GANDHI COLLEGE OF ENGINEERING AND TECHNOLOGY
Kirumambakkam, Puducherry- 607403

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Workshop on : "PLC and SCADA Systems"
(17.10.2019 to 18.10.2019)

Date : 18.10.2019

Multiple-Choice Questions:

Name : Mano.T
Register No : 16TE0408
Year / Sem : IV - VII

1. What is the primary function of a PLC (Programmable Logic Controller) in industrial automation?

- A. Data visualization
- B. Real-time data acquisition
- C. Human-machine interface design
- D. Power distribution

2. Which programming language is commonly used for PLC programming?

- A. Python
- B. C++
- C. Ladder Logic
- D. HTML

3. What does SCADA stand for in industrial automation?

- A. Systematic Control and Data Acquisition
- B. Supervisory Control and Data Acquisition
- C. Sequential Control and Data Acquisition
- D. Software Control and Data Automation

4. What is the purpose of an HMI (Human-Machine Interface) in a SCADA system?

- A. To program PLCs
- B. To control industrial robots
- C. To monitor and interact with the industrial process
- D. To analyze data trends

5. Which of the following is NOT a component of a SCADA system?

- A. RTU (Remote Terminal Unit)
- B. PLC (Programmable Logic Controller)
- C. HMI (Human-Machine Interface)
- D. PID Controller

6. In PLC programming, what does the term "Ladder Logic" refer to?

- A. A graphical programming language resembling relay logic diagrams
- B. A high-level programming language
- C. A machine learning algorithm
- D. An operating system for PLCs

7. What is the main advantage of using SCADA systems in industrial applications?

- A. Real-time data processing
- B. Cost reduction
- C. Energy efficiency
- D. Environmental sustainability

8. Which of the following is a typical application area for SCADA systems?

- A. Personal finance management
- B. Traffic control systems
- C. Mobile app development
- D. Water treatment plants

9. What is the purpose of data acquisition in SCADA systems?

- A. To control industrial processes
- B. To monitor environmental conditions
- C. To collect real-time data from sensors and devices
- D. To analyze historical data trends

10. Which of the following best describes the role of PLCs and SCADA systems in industrial automation?

- A. Controlling household appliances
- B. Optimizing manufacturing processes
- C. Managing social media platforms
- D. Designing architectural blueprints

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Workshop on : "PLC and SCADA Systems"
(17.10.2019 to 18.10.2019)

Date : 18-10-2019

Multiple Choice Questions:

Name : NIVETHA.M

Register No : 17TE0411

Year / Sem : III / IV

9/10 90%

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Workshop on : "PLC and SCADA Systems"
(17.10.2019 to 18.10.2019)

Date : 18.10.2019

Multiple Choice Questions:

Name : SARAN . P

Register No : 17TE0615

Year / Sem : III - V

8/10 80%

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Feedback Form

Course Title:

Date:

Venue:

Name:

Reg. No :

Year / Sem :

DESIGN OF THE WORKSHOP

- A. Were objectives of the workshop clear to you? Y / N
- B. The contents met with your expectations
1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree
- C. The lecture sequence was well planned
1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree
- D. The contents were illustrated with adequate examples
1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree
- E. The level of the seminar was too high
1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree
- F. The contents compared with your expectations was too theoretical
1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree
- G. The workshop exposed you to new knowledge and practices
1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree

CONDUCT OF THE WORKSHOP

- A. The lectures were clear and easy to understand
1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree
- B. The teaching aids were effectively used
1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree
- C. The material handed out was adequate
1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree
- D. The instructors encouraged interaction and were helpful
1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree
- E. Were objectives of the seminar realized? Y / N
- F. Please give overall rating of the course


90% - 100% () 60% - 70% ()

80% - 90% () 50% - 60% ()

70% - 80% () below 50% ()



Signature


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Feedback Form

Course Title: PLC and SCADA systems

Date: 18/10/2018

Venue: Microprocessors Lab

Name: T. Manoj

Reg. No : 16 TEO 408

Year / Sem : IV / III

DESIGN OF THE WORKSHOP

- A. Were objectives of the workshop clear to you? / N
- B. The contents met with your expectations
1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree
- C. The lecture sequence was well planned
1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree
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- E. Were objectives of the seminar realized? / N
- F. Please give overall rating of the course
90% - 100% () 60% - 70%
80% - 90% () 50% - 60% ()
70% - 80% () below 50% ()



T. Manoj
Signature

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Feedback Form

Course Title: PLC and SCADA Systems

Date: 18/10/2019

Venue: Microprocessor Lab

Name: JARAN.P

Reg. No : 17T60415

Year / Sem : III / V

DESIGN OF THE WORKSHOP

- A. Were objectives of the workshop clear to you? Y / N
- B. The contents met with your expectations
1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree
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90% - 100% () 60% - 70% ()

80% - 90% () 50% - 60% ()

70% - 80% () below 50% ()

P. Rama
Signature



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Feedback Form

Course Title: PLC & SCADA Systems

Date: 18/10/14

Venue: MP lab

Name: V. Sanjay

Reg. No: 17TE0414

Year / Sem: III / V

DESIGN OF THE WORKSHOP

- A. Were objectives of the workshop clear to you? Y N
- B. The contents met with your expectations
1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree
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- E. Were objectives of the seminar realized? Y N
- F. Please give overall rating of the course

90% - 100% () 60% - 70% ()

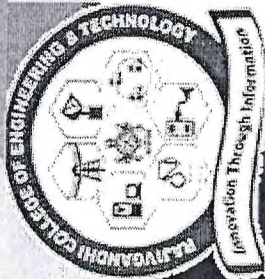
80% - 90% () 50% - 60% ()

70% - 80% () below 50% ()

V. Sanjay
Signature



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Certificate of Participation

This is to certify that Mr/Ms **DURAI PANDIYAN S** Registration No: **17TEL010** from **III year EEE** department has attended the Two days workshop on “**PLC and SCADA Systems**”, organized by Department of Electrical & Electronics Engineering, Rajiv Gandhi College of Engineering & Technology, Puducherry from 17.10.2019 to 18.10.2019



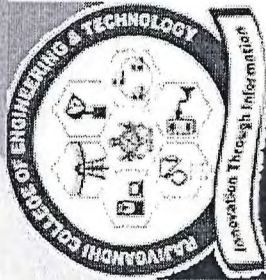
[Signature]
Event Coordinator

[Signature]

Head of the Department

HEAD OF THE DEPARTMENT
Electrical & Electronics Engg.
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Dr. E. VILASAKRISHNA *[Signature]*
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Certificate of Participation

This is to certify that Mr/Ms **SARASWATHY B** Registration No: **17TE0416** from **III** year **EEE** department has attended the Two days workshop on “**PLC and SCADA Systems**”, organized by Department of Electrical & Electronics Engineering, Rajiv Gandhi College of Engineering & Technology, Puducherry from 17.10.2019 to 18.10.2019

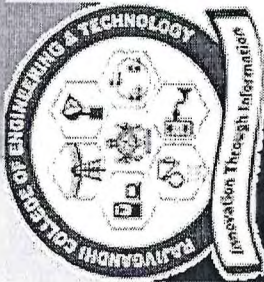


J. Srinivas
Event Coordinator

R. Viji

Head of the Department
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This is to certify that Mr/Ms **RAMKUMAR R** Registration No: 17TEL012 from III year EEE department has attended the Two days workshop on ‘PLC and SCADA Systems’, organized by Department of Electrical & Electronics Engineering, Rajiv Gandhi College of Engineering & Technology, Puducherry from 17.10.2019 to 18.10.2019

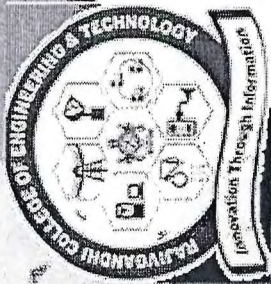

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This is to certify that Mr/Ms MANO T Registration No: 16TE0408 from IV year EEE department has attended the Two days workshop on "PLC and SCADA Systems", organized by Department of Electrical & Electronics Engineering, Rajiv Gandhi College of Engineering & Technology, Puducherry from 17.10.2019 to 18.10.2019

J. Srinivasan
Event Coordinator



R. Sankar

Head of the Department

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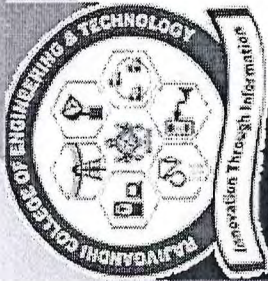


J. Sundar
Event Coordinator

R. Vora

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Certificate of Participation

This is to certify that Mr/Ms S.SANTHOSH Registration No: 16TC0555 from IV year EEE department has attended the Two days workshop on “PLC and SCADA Systems”, organized by Department of Electrical & Electronics Engineering, Rajiv Gandhi College of Engineering & Technology, Puducherry from 17.10.2019 to 18.10.2019

A. J. Srinivasan
Event Coordinator



R. V. Ravi

Head of the Department

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Rajiv Gandhi College of Engg. & Techno.,
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Pondy - Cuddalore Main Road, Kirumampakkam, Puducherry - 607 403.



A Two days Workshop on “PLC & SCADA Systems” was conducted by department of EEE from 17.10.2019 to 18.10.2019


Dr. E. VIJAYAKRISHNA RAPAKA

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