



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Permanently Affiliated to JNT University Kakinada,
ACCREDITED BY NAAC and Recognized under 2(f) & 12 (b) by UGC, New Delhi)
Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

*Certificate Course
on*

PLC and SCADA

From 12th NOV 2018 TO 17th NOV 2018



ORGANIZED BY

**DEPT. OF ELECTRICAL & ELECTRONICS ENGINEERING
AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY,
TAMARAM (V), MAKAVARAPALEM (M),
VISAKHAPATNAM-531113**

AVANTHI EDUCATIONAL SOCIETY

Avanthi Educational Society under the Leadership of Sri M.Srinivasa Rao garu as chairman was started in the Year 1991. Within a short span of its establishment, the group has made a remarkable stride in the field of education offering various courses at Under Graduate, Post Graduate, Pharmacy & Engineering levels. This milestone is achieved as the institution carved itself to impart quality and career oriented education, countering the challenges of the modern world through planning, dedication, determination, prompt execution and with the innovative ideas of our advisory board. Today, Avanthi Educational Society is proud to have a strength of over 16000 students with 15 institutions under its ambit. It is the path of glory towards the success during the last 19 years. The institution has been adjudged many times as the second best educational institutions in the twin cities and 16th best in all over India through the impartial survey made by the renowned magazine "India Today".

AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

AIET started in the year 1999 and offers various courses at Engineering and PG level. The college is providing with rooms, computer centre, laboratories and seminar hall with audio-visual equipments. Industry Institute interaction is conducted regularly to emphasize on the latest trends in the present market.



It is very near to Narsipatnam. Frequent bus facilities are available both from Visakhapatnam and Narsipatnam. Very safe and secure hostel facility is available for

Girl students. These are the additional facilities besides excellent academic atmosphere in the college campus.

DEPARTMENT OF ELECTRICAL ANDELECTRONICS ENGINEERING

The Department of Electrical & Electronics Engineering was established in the year 2001 along with the MECHANICAL, ECE and CSE departments. The department has an intake of 60 students. Commencing the academic year 2011, a post-graduate course in Power Electronics and 2014 in Power Systems was started. The department has full fledged laboratories, workshops and P.G. labs. The department is staffed with qualified, experienced and dedicated members who engage in research activities.. The department with active support from the management is aiming to expand its research activities and industrial consultancies.

ABOUT COURSE

PLC or Programmable Logic Controller is a computing system used to control electromechanical processes.

SCADA stands for supervisory control and data acquisition. It is a type of industrial control system that is used to monitor and control facilities and infrastructure in industries.

The main objective of PLC & SCADA workshop is to make aspiring engineers acquainted with the conceptual and practical knowledge of the industrial automation

and latest technologies being used to achieve industrial automation. The idea of organizing this workshop is to inculcate the basic fundamental of automation in the students and provide them with a platform to work on, in the near future.

TOPICS TO BE COVERED

DAY-1: Presentation on Recent Trends in Industrial Automation & PLC-SCADA

DAY-2: Detail study of PLC

DAY-3: Detail study of SCADA

DAY-4: PLC I/Os Basics, Burning & Interfacing Concepts

DAY-5: Downloading A Ladder Program In PLC Using RSLinx and how to take Input from Panel

DAY-6: Hands on PLC Training Kit

For any further information Contact Mr K. NARAYANA RAO, Assistant Professor, EEE, and Mr. P. ANIL KUMAR Assistant Professor, EEE

CHIEF PATRON

Smt M. Gnaneswari
President, Avanthi Educational Society

PATRON

Dr. C P V N J Mohan Rao
Principal,
Avanthi Institute Of Engineering And Technology

CHAIRMAN

Dr. T Srinivasa Rao
Head of the Department
Electrical & Electronics Engineering

COORDINATORS

P Anil Kumar
Asst. Professor
&
K Narayana Rao
Asst. Professor



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


CIRCULAR

Di.10th Nov, 2018

A Short term Course on **PLC and SCADA** for all the III Year II Semester students of Electrical & Electronics Engineering Department is scheduled from 12th Nov 2018 to 17th Nov 2018. All the students should attend the course without fail. For any further information Contact Course Coordinators Mr.P.Anil Kumar and K Narayana Rao, Assistant Professor, EEE Department.

Resource person Details:

1. Sri N. Surya Naryana
Multi Skill Trainer
APSSDC.
2. Smt G. Sireesha
Multi Skill Trainer
APSSDC.


Dr T. Srinivasarao

Head of the Department

EEE

Copy to: Principal, AIET

Head of the Department
Department of Electrical & Electronics Engg.
Avanathi Institute of Engg & Tech.
Makavarapalem, Visakhapatnam - 531113.



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PLC and SCADA

Duration: 12-11-2018 to 17-11-2018

SYLLABUS

DAY-1: Presentation on Recent Trends in Industrial Automation & PLC-SCADA

DAY-2: Detail study of PLC

DAY-3: Detail study of SCADA

DAY-4: PLC I/Os Basics, Burning & Interfacing Concepts

DAY-5: Downloading A Ladder Program In PLC Using RSLinx and how to take Input from Panel

DAY-6 : Hands on PLC Training Kit

P. Anil Kumar
COORDINATOR


HOD

Head of the Department
Department of Electrical & Electronics Engg.
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PLC and SCADA

Duration: 12-11-2018 to 17-11-2018

SCHEDULE

| DAY/DATE | Session - 1 09.00 AM to 12Noon | Session - 2 1.00 PM to 4.00 PM |
|--------------------------------|--|--|
| Monday 12/11/2018 | Introduction to Automation and different type Of industrial control mechanisms | Motor drives introduction & their Need and Sensors introduction & their Need |
| Tuesday 13/11/2018 | Detailed explanation of PLC | Explanation of some programs on PLC |
| Wednesday 14/11/2018 | Detailed explanation of SCADA | Explanation of some programs on SCADA |
| Thursday 15/11/2018 | Brief description to Input/ Output Pins Of Micrologix-1000 and Ladder diagram basics | Allen Bradley & Rockwell Automation's details and Introduction to RSLogix |
| Friday 16/11/2018 | Introduction to RSLogix and Downloading a Ladder Program in PLC Using RSLogix | How to take Input from Panel and how to give Output To Panel |
| Saturday 17/11/2018 | Hands on PLC Training Kit | Hands on PLC Training Kit |

P. Anil Kumar
COORDINATOR

Head of the Department
Department of Electrical & Electronics Engg.
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Delhi) Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

PLC and SCADA

From 12th Nov 2018 to 17th Nov 2018

3rd Year Students Attendance

| S.NO | ROLL NUMBER | STUDENT NAME | 12 Nov | 13 Nov | 14 Nov | 15 Nov | 16 Nov | 17 Nov |
|------|-------------|-------------------------------------|--------|--------|--------|--------|--------|--------|
| 1 | 16811A0201 | ANTHARVEDI LAKSHMI BHAVANI SOWMYA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2 | 16811A0202 | CHEKURI HEMANTH KUMAR | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3 | 16811A0203 | CHODAY BHANU TEJASWINI | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4 | 16811A0204 | KALAGA VARAHA VENKATA RAM PRASAD | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5 | 16811A0205 | KARANAM SREENU | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6 | 16811A0206 | MOLUGU BHARADHWAJ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ |
| 7 | 16811A0207 | NEELAGIRI LOKESH VENKATA SAI GANESH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8 | 16811A0208 | PASALAPUDI MOHANA PRIYA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 9 | 16811A0209 | PEDAPATI HARIKRISHNA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 10 | 16811A0210 | PETLA VISHNU VARDHAN | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 11 | 16811A0211 | PYLA RAMESH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 12 | 16811A0212 | SHAIK KHAJA BASHEER | ✓ | ✗ | ✓ | ✓ | ✓ | ✓ |
| 13 | 16811A0213 | VANUGU RENU PRASANTH KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 14 | 16811A0214 | YAKA SALMANRAJU | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 15 | 17815A0201 | BAINA SATYA GIREESH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 16 | 17815A0202 | CHITIKELA MANASA | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ |
| 17 | 17815A0203 | DANIMIREDDI NOOKESH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 18 | 17815A0204 | EARLA V S G RAMARAO | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 19 | 17815A0205 | GANDREDDY LAZAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 20 | 17815A0206 | GOPISETTI LAKSHMI VINOJ KUMAR | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| 21 | 17815A0207 | KAARUKONDA TARUN KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 22 | 17815A0208 | KALLA SRAVANI | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 23 | 17815A0209 | KILAPARTHI PRASAD | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

| | | | | | | | | |
|----|------------|---------------------------------|---|---|---|---|---|---|
| 24 | 17815A0210 | KUNDRAPU REVATHI | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 25 | 17815A0211 | LAGUDU PRASAD | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 26 | 17815A0212 | LEKKALA SRI RAM SIVA KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 27 | 17815A0213 | MADDU CHANDRA SEKHAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 28 | 17815A0214 | MAKIREDDI AYYAPPASWAMY | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| 29 | 17815A0215 | MAMIDI SIVAJI | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 30 | 17815A0216 | MOTURI BHAVAN ANIL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 31 | 17815A0217 | NEELI PAVAN KALYAN | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 32 | 17815A0218 | PASUPULETI BHASKARA SIVA GANESH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 33 | 17815A0219 | PATCHARA NAGESWARARAO | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 34 | 17815A0220 | PINAMAREDDI OOHAI | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 35 | 17815A0221 | POLUPARTHI GANGA BABU | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 36 | 17815A0222 | RAVADA SREENU | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

P. Anil Kumar
Coordinator

H/D
Head of the Department
Department of Electrical & Electronics Engg.
Avanhi Institute of Engg & Tech.
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

A 5days course on

PLC & SCADA

From 12th Nov to 17th Nov 2018



P. Anil Kumar
coordinator

[Signature]
Head of the Department
Department of Electrical & Electronics Engg
Avanthi Institute of Engg & Tech.
Makavarapalem, Visakhapatnam - 531113.
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Certificate of Participation

This is to certify that Mr./Ms. _____ of
_____ has participated in the Certificate Course entitled
on **PLC AND SCADA** during from 12TH NOV 2018 to 17TH NOV 2018 was organised
by the Department of ELECTRICAL AND ELECTRONICS ENGINEERING at
Avanathi Institute of Engineering and Technology.

Coordinator

HOD

Principal



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Department of Electrical and Electronics Engineering


Dt: 21-11-2018

BRIEF REPORT

Department of Electrical and Electronics Engineering, Avanthi Institute of Engineering and Technology had organized a certificate course on “PLC and SCADA” during from 12-11-2018 to 17-11-2018

We had Sri N. Surya Narayana (Multi Skill Trainer APSSDC) as a resource person has been discussed regarding familiar with the practical knowledge of the Industrial Automation and recent technologies being utilized to accomplish modern Industrial Automation. He also told that organizing this course is to impart the basics of electrical automation in the understudies and give them a stage to deal with, in the near future. He also gave an explanation on the most utilized guiding force behind a computerized modern plant is a “Programmable Logic Controller” also known as a PLC and also give brief explanation on PLCs alongside certain other essential fixings like Sensors, Motors, Actuators, Valves, Conveyors, Boilers, SCADA Systems.. This course gives a brief exposure to students on industrial and process automation, introduction to PLC and SCADA and hands on experience on PLC.

P. Anil Kumar
Coordinator


Head of the Department
Head of the Department
Department of Electrical & Electronics Engg.
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AV