Subharti Institute of Technology and Engineering
Swami Vivekanand Subharti University, Meerut
(Approved by AICTE)
Subhartipuram, NH-58 Delhi-Haridwar Bypass Road, Meerut-250005 (U.P.)
Ph.: 0121-2439157, Ext. 2222, 2221, Fax: 0121-2439108
E-mail:principal.site@gmail.com,principal.engg@gmail.com, Website: www.subharti.org

VALUE ADDED COURSES

SESSION : 2017-18

COURSE NAME: PLC SCADA
COURSE CODE: ET-VA-07

1. BROCHURE

PRINCIPAL

Subharti Institute of Technology and Engineering
Swami Vivekanand Subharti University, Meerut
(Approved by AICTE)
Subhartipuram, NH-58 Delhi-Haridwar Bypass Road, Meerut-250005 (U.P.)
Ph.: 0121-2439157, Ext. 2222, 2221, Fax: 0121-2439108
E-mail:principal.site@gmail.com,principal.engg@gmail.com, Website: www.subharti.org

2. REGISTRATION FORM:

REGISTRATION ELIGIBILITY

For all UG-PG students of ECE, EEE & CS/IT
No registration fees.

HOW TO REGISTER

Interested participants should send their duly completed registration form through their respective Head of the Departments to Ms.Vartika Tyagi,Asst. Prof.,ECE for registering their names as a participant in the "VALUE ADDED COURSE ON INDUSTRIAL AUTOMATION- PLC AND SCADA " organized by Department of Electronics & Communication Engineering ,SITE, SVSU , Meerut.The participants need to submit individual entry forms.

IMPORTANT DATES

Last date for receipt of application:
12th August 2017
Last date for acceptance notification:
14th August 2017

VENUE

Room no 210, 1st floor
Subharti Institue of Technology and Engineering, SVSU, Meerut

PATRON

Dr. Bikas Prasad
Principal, SITE

Er. Amit Kumar
HoD, ECE

CO-ORDINATOR
Er. Vartika Tyagi, Asst Prof(ECE),SITE
Mob: +919458865641
Email : vartikatyagi87@yahoo.com

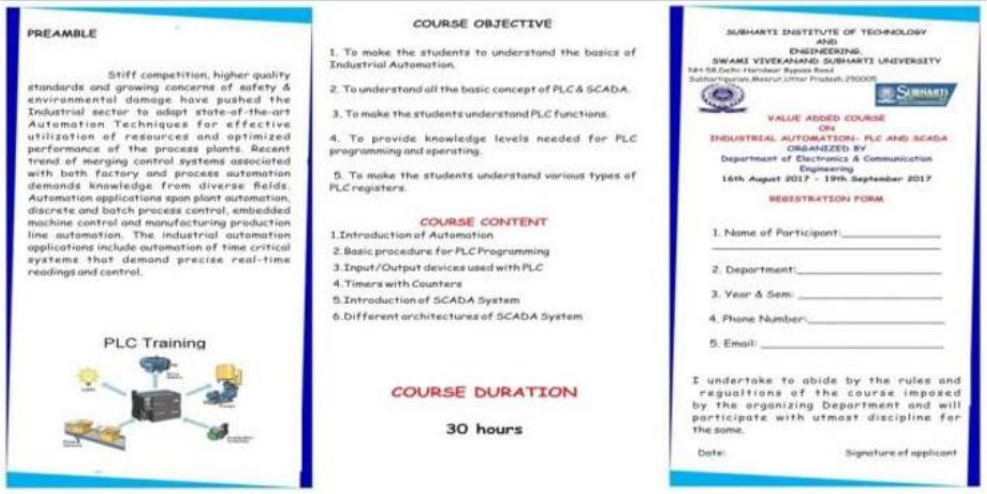
PLC

VALUE ADDED COURSE
ON
INDUSTRIAL AUTOMATION- PLC AND SCADA

16th August2017-19th September 2017

Organized by:
Department of
Electronics & Communication Engineering,
Subharti Institute of Technology and Engineering

SWAMI VIVEKANAND
SUBHARTI UNIVERSITY
MEERUT



PREAMBLE

Stiff competition, higher quality standards and growing concerns of safety & environmental damage have pushed the Industrial sector to adopt state-of-the-art Automation Techniques for effective utilization of resources and optimized performance of the process plants. Recent trend of merging control systems associated with both factory and process automation demands knowledge from diverse fields. Automation applications span plant automation, discrete and batch process control, embedded machine control and manufacturing production line automation. The industrial automation applications include automation of time critical systems that demand precise real-time readings and control.

PLC Training

COURSE OBJECTIVE

1. To make the students to understand the basics of Industrial Automation.
2. To understand all the basic concept of PLC & SCADA.
3. To make the students understand PLC functions.
4. To provide knowledge levels needed for PLC programming and operating.
5. To make the students understand various types of PLC registers.

COURSE CONTENT

1.Introduction of Automation
2.Basic procedure for PLC Programming
3.Input/Output devices used with PLC
4.Timers with Counters
5.Introduction of SCADA System
6.Different architectures of SCADA System

COURSE DURATION

30 hours

SUBHARTI INSTITUTE OF TECHNOLOGY
AND
ENGINEERING,
SWAMI VIVEKANAND SUBHARTI UNIVERSITY

VALUE ADDED COURSE
ON
INDUSTRIAL AUTOMATION- PLC AND SCADA
ORGANIZED BY
Department of Electronics & Communication Engineering
16th August 2017 - 19th September 2017

REGISTRATION FORM

1. Name of Participant:_____
_____
2. Department:_____
3. Year & Sem: _____
4. Phone Number:_____
5. Email: _____

I undertake to abide by the rules and regualtions of the course imposed by the organizing Department and will participate with utmost discipline for the same.

Date: Signature of applicant

PRINCIPAL

SUBHARTI INSTITUTE OF TECHNOLOGY & ENGINEERING

(College established in 2005 & Approved by AICTE)

0121-2439043/52, Fax: 0121-2439067, E-mail: engineering@subharti.org, Web: www.engineering.subharti.org

A constituent college of

SWAMI VIVEKANAND SUBHARTI UNIVERSITY

(Established under U.P. Govt. Act no. 29 of 2008 and approved under section 2(f) of UGC Act 1956)

Department of Electronics & Communication Engineering

Dated :02-08-2017

NOTICE

The Department of ECE start a value added course on Industrial Automation-PLC & SCADA. For interested students which will provide them the opportunity to enhance their knowledge in the field of communication. The proposed course will be open only for ECE &EEE students and the students will be enrolled on first come first serve basis. The course will be provided to the students free of cost. A total of 30 hours will be utilized for conducting the course. This course will be coordinated by Er. Vartika Tyagi, Assistant Professor, Department of ECE.

Important Dates:

- Last date of receipt of application –7 th August ,2017
- Last date of acceptance of application-8 th August ,2017

CC:

- Principal
- Department of EEE

Registrar
Swami Vivekanand
Subharti University
MEERUT

ECL:

- Registration Form

HOD(ECE)

SUBHARTI INSTITUTE OF TECHNOLOGY & ENGINEERING

(College established in 2005 & Approved by AICTE)

0121-2439043/52, Fax: 0121-2439067, E-mail: engineering@subharti.org, Web: www.engineering.subharti.org

A constituent college of

SWAMI VIVEKANAND SUBHARTI UNIVERSITY

(Established under U.P. Govt. Act no. 29 of 2008 and approved under section 2(f) of UGC Act 1956)

Department of Electronics & Communication Engineering

Dated :25-07-2017

To
The Principal
SITE, SVSU, Meerut

Subject: Application for starting value added course named Industrial Automation-PLC & SCADA in the Department of ECE

Respected sir

The Department of ECE is planning to start a value added course in the field of Electronics for interested students which will provide them the opportunity to enhance their knowledge in the field of Communication system and allied fields of Electronics. The proposed course will be open for maximum 15 students and the students will be enrolled on first come first serve basis. The course will be provided to the students free of cost. A total of 30 hours will be utilized for conducting the course.

I request you to guide us for starting the course of "Industrial Automation-PLC & SCADA" in the odd semester of session 2017-18 .

Registrer
Swami Vivekanand
Subharti University
MEERUT

Your obediently

Er. Amit Kumar
HOD(ECE)

SWAMI VIVEKANAND SUBHARTI UNIVERSITY, MEERUT

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Value Added Course

1.Title Name: Industrial Automation- PLCs and SCADA

2.Contact Hours: L: 4 T: 2

COURSE OBJECTIVES:

1. To make the students to understand the basics of Industrial Automation.
2. To understand all the basic concept of PLC & SCADA.
3. To make the students understand PLC functions.
4. To provide knowledge levels needed for PLC programming and operating.
5. To make the students understand various types of PLC registers.

Module	Particulars	Contact Hours
I	**Industrial Automation:** History & Need of Industrial Automation, Application of Industrial Automation, Basic Components of Automation, Hardware Classification of Automation. **PLC Basics:** Definition, Historical Background, Principles of Operation, PLCs Versus Other Types of Controls, , Basic Procedure for PLC programming, Advantages of PLCs.	10
II	**Input/ Output Devices:** Input/ Output devices used with PLC, Number System: The binary system, Octal and hexadecimal, Binary arithmetic, PLC Data **PLC Registers:** Shift registers, Types of timers, Programming timers, Off-delay timers, Pulse timers, Forms of counter, Up and down counting, Timers with counters.	10
III	**SCADA System:** Introduction, definition and history of Supervisory Control and Data Acquisition, typical SCADA System Architecture, Desirable properties of SCADA system, Features, advantages, disadvantages and applications of SCADA. SCADA Architecture(First generation-Monolithic, Second Generation-Distributed, Third generation-Networked Architecture)	10

Registrar
Swami Vivekanand
Subharti University
MEERUT

REPORT ON VALUE ADDED COURSE ON PLC SCADA

ET VA 07

Industrial automation is automation in the manufacturing industry has evolved from the use of basic hydraulic pneumatic systems to today's modern robots.

Agenda

- What is Industrial Automation –PLC and SCADA
- Need of Industrial Automation
- Application of Industrial Automation.
- PLC Basics

Pre-requisite:

1. **PLC Programming**
2. **Ladder Logic Programming**
3. **Some knowledge of Industrial Process.**

Tools Support:

1. Allen Bradley PLC: Compact Logix L32E:
2. Hardware Configuration

Objective of PLC SCADA:

- To make the students to understand the basics of Industrial Automation
- To understand all the basic concept of PLC & SCADA
- To make the students understand PLC functions.
- To provide knowledge levels need for PLC programming and operating.
- To make the students understand various types of PLC registers

End Note:

It was a great experience for students to learn the all concept of PLC & SCADA along with the applications include automation of time critical .They enjoyed and learnt a lot from the session.

Registrar
Swami Vivekanand
Subharti University
MEERUT

Subharti Institute of Technology and Engineering
Swami Vivekanand Subharti University, Meerut
(Approved by AICTE)
Subhartipuram, NH-58 Delhi-Haridwar Bypass Road, Meerut-250005 (U.P.)
Ph.: 0121-2439157, Ext. 2222, 2221, Fax: 0121-2439108
E-mail:principal.site@gmail.com,principal.engg@gmail.com, Website: www.subharti.org

SESSION : 2017-18

COURSE NAME: PLC SCADA
COURSE CODE: ET-VA-07

LIST OF STUDENTS

S.NO.	ENROLL NO.	NAME OF STUDENTS
1.	1201730716	MANISH KUMAR SINGH
2.	1401010001392	ROHIT SINGH
3.	1301702629	KM. SHIVANI
4.	1401010001393	PANKAJ KUMAR
5.	1401010001549	NEHA KUMARI
6.	1401010001397	HARSHIT KAUTHS
7.	1501018801625	KUNAL BHATT
8.	1501018801449	AVINASH SINGH
9.	1401010002067	PRADEEP KUMAR
10.	9914010704013	MOHD SHUJA ZAIDI
11.	1501010000927	AQEEDAT HUSSAIN
12.	1501010000935	VISHAL CHAUDHARY
13.	1501010000928	ANKUR YADAV
14.	1601010000388	VARSHA SHARMA
15.	1601010000302	NISHESH GUPTA

Registrar
Swami Vivekanand
Subharti University
MEERUT

PRINCIPAL

Sample Certificate

SWAMI VIVEKANAND SUBHARTI UNIVERSITY
UGC Approved Meerut

Where Education is a Passion ...

SUBHARTI INSTITUTE OF TECHNOLOGY AND ENGINEERING

CERTIFICATE OF TRAINING

This is to certify that _____ of **Electronic and Communication** Branch has successfully completed the Value-added course on "Industrial Automation –PLC SCADA" held at Subharti Institute of Technology and Engineering, Swami Vivekanand Subharti University, Meerut dated 11th August 2017 to 19th September 2017

Er. AmitKumar
HoD (ECE)

Er Vartika Tyagi
Asst. Professor (ECE)