SIES Graduate School of Technology, Nerul

Mechanical Engineering Department

Organize a

5 days Hands on Training on
PLC Programming From Scratch
21-25 June 2018

Now a days, programmable logic controllers(PLC) are an elementary component of state-of-the-art automation solutions. Intelligent solutions are not based on a conflict between these systems, but on unity. With important advantages like, robustness and easy handling, the PLC continues to guarantee its success. Further development will be dependent on more & more steadfast integration of information & communication technology. For the engineering processes, the integrated workflow will covers all engineering tools for production. This require transparency of the data flow between a company's production processes and its business processes.

This training program is meant to be a hands-on type course, giving students opportunity to work on Allen Bradley PLC and Learn various methods of PLC programming. This course is designed to equip the novice with no prior PLC programming experience with the basic tools necessary to create a complete PLC program.

OBJECTIVES

➢ To provide knowledge levels needed for PLC programming and its operating.
➢ To train the students to create ladder diagrams from process control descriptions.

COURSE CONTENT

➢ Introduction to PLC and its types
➢ Learning PLC programming using Ladder Diagram using the Rockwell software RSLogix 500
  ▪ Basic Inputs and Outputs
  ▪ Fundamentals of the Scan Sequence
  ▪ Understanding Bits and Instructions
  ▪ Basic Instruction XIC, OTE and XIO
➢ Different Task will be given to students related to PLC Programming

WHO SHOULD ATTEND

Any student from SE/TE (**EXTC/MECH/IT/CE/PPT**) – Entry for only first 20 students
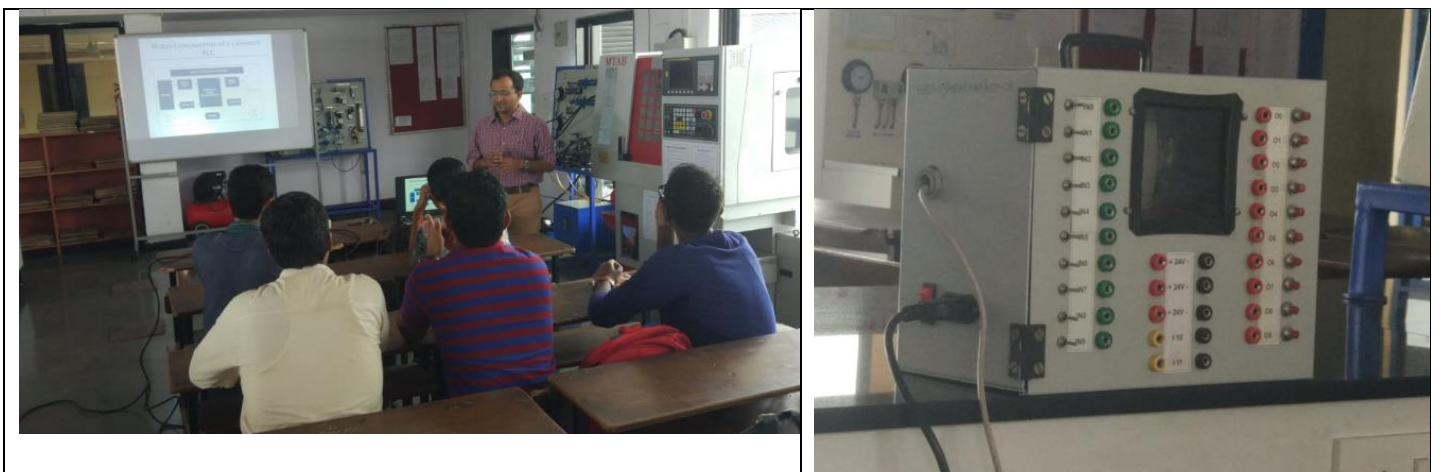
Course Fees

Free of charge

Contact for Registration

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SCHEDULE					
Date	**Day 1**	**Day 2**	**Day 3**	**Day 4**	**Day 5**
Resource person	**Abhishek Kadam**	**Abhishek Kadam**	**Abhishek Kadam**	**Abhishek Kadam**	**Pradip P. Patil**
Time	10:00 AM	10:00 AM	10:00 AM	10:00 AM	10:00 AM
Morning	Learning PLC programming using Ladder Diagram using the Rockwell software RSLogix 500 Basic Inputs and Outputs	Fundamentals of the Scan Sequence	Understanding Bits and Instructions	Basic Instruction XIC, OTE and XIO	Interfacing with Hydraulics and Pneumatic Kit
	Assignment/ Activity				
Afternoon	Hands on practice on Rockwell software RSLogix 500	Hands on practice on Rockwell software RSLogix 500	Hands on practice on Rockwell software RSLogix 500	Hands on practice on Rockwell software RSLogix 500	Hands on practice on Rockwell software RSLogix 500 and Pneumatic Kit

Photographs:

Report:

A SDP was organized for the Mechanical Engineering student **from** 21 June 2018 to 25 June 2018. The SDP was conducted by Prof. Abhishek Kadam and Dr. Pradip P. Patil on the topic "PLC programming from scratch" in Mechatronics lab in Mechanical Engineering Department. Altogether 15 students were present for the workshop. The workshop consists of live problems of various domains such as Hydraulics and pneumatics. The detail analysis of the feedback is given below:

Criteria (Tick the appropriate column)	Strongly Agree	Agree	Disagree	Strongly Disagree
The content was as described in publicity materials	75%	25%	-----	-----
The material was presented in an organized manner	75%	25%	-----	-----
I will recommend this workshop to other conservators	60%	40%	-----	-----
The program was well paced within the allotted time	41%	59%	-----	-----
The instructor was a good communicator	92%	8%	-----	-----
The instructor was knowledgeable on the topic	93.5%	6.5%	-----	-----
I would be interested in attending a follow-up, more advanced workshop on this same subject	58.3%	41.7%	-----	-----