



ज्ञानमयि मा सुखं लभते ।
लभते मा ज्ञानिनिभम् ॥

SANIP

[Report - Value Added Programme on LABVIEW CORE-I & CORE II]

Duration: 3 Months



Sandip Foundation's
**Sandip Institute of Technology
& Research Centre,**
Mahiravani, Nashik
**Department of Electronics &
Telecommunication Engineering**



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Sandip Institute of Technology & Research Centre,
Mahiravani, Nashik

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Date:

Name of Event: Value Added Programme on LABVIEW CORE I and CORE II

Date of Event: 3rd November 2015 to 10th February 2016

Duration of Event: 3 Months (3 days per week)

Name of resource person:

Prof. P. S. Aswale

Name and Address of Company:

SITRC, Nashik

Name of Event Coordinator:

Prof. P. S. Aswale

Participant:

| SR.NO | NAME OF STUDENT | PRN NO | CLASS/DIV |
|-------|---|-----------|-----------|
| 1 | PRIYANKA DILIP TILE | 71512239J | TE/B |
| 2 | AISHWARYA NAGARE | 71512172D | TE/B |
| 3 | SONALI SATALKAR | 71512214C | TE/C |
| 4 | NIKITA NAIKWADI | 71512173B | TE/B |
| 5 | SHRUTI ZAROLE | 71512253D | TE/B |
| 6 | PRANALI PATIL | 71512200C | TE/B |
| 7 | PRIYANKA SUJGURE | | TE/C |
| 8 | SHIVANI PAGARE | 71512181C | TE/B |
| 9 | PAYAL GAIDHANI | 71512132E | TE/A |
| 10 | SONAL SALI | 71512205D | TE/B |
| 11 | ASHWINI SANJAY PAWAR | 71512195C | TE/C |
| 12 | BINNAR TEJAL | 71512105H | TE/C |
| 13 | VISPUTE EKATA RAJENDRA | 71424902F | TE/B |
| 14 | SHUBHADA UGALE | 71424861E | TE/B |
| NOTE: | Course Duration: 3 Months (3 days in Week) | | |
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Objectives:

LabVIEW (short for Laboratory Virtual Instrument Engineering Workbench) is a system-design platform and development environment for a visual programming language from National Instruments. LabVIEW is commonly used for data acquisition, instrument control, and industrial automation on a variety of platform. LabVIEW is system design software that provides engineers and scientists with the tools needed to create and deploy measurement and control systems through hardware integration.

Training Goals

- Become comfortable with LABVIEW environment and data flow execution.
- Use the programming structures and data types that exist in LabVIEW
 - Simple arithmetic functions and their use to perform different operations
 - Differences between indicators and controls and how they can be used

- Differences between a While Loop and a For Loop
- How shift registers access values from previous iterations.
- How the Case Structures work.
- Understand the components of a Virtual instruments.
- Provides a brief overview of the NI ELVIS Series II workstation
- Build a simple data acquisition application using NI ELVIS Prototyping board.
- To implement lab exercises based on NI LabVIEW FPGA software.
- Discussion of Mini Project based on LABVIEW.

Outcome:

1. Participants explains the basic terminology used in Labview (Graphical Programming)
2. Design user interface and Develop a code in Labview to meet the expected task.
3. Effectively uses virtual instruments (DMM, Function Generator, CRO etc) for measurements and control.
4. Design and Develop mini projects based on data acquisition and control using LABVIEW and NI ELVIS board, Digital FPGA board.
5. Implement Basic electronics, Digital electronics, Op-amp practical using NI ELVIS Prototype board.

Photos:

