

Name: _____ ID: _____ Date: ____/____/____

Experiment # 1:

Introduction to Lab-VIEW

(CLO 1, PLO 5)

Objectives:

At the end of this lab, students will be able to

- Create a project and simulate in Lab VIEW.
- Use different function and control blocks.
- Implement different math and logic operation in Lab VIEW
- Define the different type of inputs and outputs for function and control blocks.
- Optimize the simulation of design project in Lab VIEW.

Introduction/Tutorial:

Lab view can be learned easily by following the given steps

1. How to access LabView.
 2. How to create a new blank VI.
 3. How to create a front panel with the available controls and indicators.
 4. How to create a block diagram that corresponds to the front panel.
 5. How to use the tools palette and its available functions on the toolbar.
 6. How to practice LabVIEW programs at home.
-
1. Accessing LabVIEW 8.5.
 - 1) Logon on to computer with LabVIEW installed.
 - 2) From the **Start** menu, go to **All Programs/ National Instruments/ LabVIEW 8.5** (or 8.2 in cnc24hour2 server). Click **LabVIEW**. (Select **OK** if there is a Security Notice and **Continue** on the **LabVIEW** window).
 2. Creating a new blank VI.

What is a VI?

Measurements And Instrumentation Lab Manual

**Andrea Cataldo, Nicola
Giaquinto, Egidio De
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Gaetani**

Measurements And Instrumentation Lab Manual:

Basic Theory and Laboratory Experiments in Measurement and Instrumentation Andrea Cataldo, Nicola Giaquinto, Egidio De Benedetto, Antonio Masciullo, Giuseppe Cannazza, Ilaria Lorenzo, Jacopo Nicolazzo, Maria Teresa Meo, Alessandro De Monte, Gianluca Parisi, Federico Gaetani, 2020-05-19 This textbook offers a unique compendium of measurement procedures for experimental data acquisition After introducing readers to the basic theory of uncertainty evaluation in measurements it shows how to apply it in practice to conduct a range of laboratory experiments with instruments and procedures operating both in the time and frequency domains Offering extensive practical information and hands on tips on using oscilloscopes spectrum analyzers and reflectometric instrumentation the book shows readers how to deal with e g filter characterization operational amplifiers digital and analogic spectral analysis and reflectometry based measurements For each experiment it describes the corresponding uncertainty evaluation in detail Bridging the gap between theory and practice the book offers a unique self contained guide for engineering students and professionals alike It also provides university teachers and professors with a valuable resource for their laboratory courses on electric and electronic measurements *Laboratory Manual for Introductory Electronics Experiments* L. K. Maheshwari, M. M. S. Anand, 1979 **Electrical & Electronic**

Measurements and Instrumentation Sudarsan Sahoo, Vipin Chandra Pal, Sandeep Panchal, 2025-06-01 **Measurement and Instrumentation in Engineering** Francis S. Tse, Ivan E. Morse, 1989-07-28 Presenting a mathematical basis for obtaining valid data and basic concepts in measurement and instrumentation this authoritative text is ideal for a one semester concurrent or independent lecture laboratory course Strengthening students grasp of the fundamentals with the most thorough in depth treatment available Measurement and Instrumentation in Engineering discusses in detail basic methods of measurement interaction between a transducer and its environment arrangement of components in a system and system dynamics describes current engineering practice and applications in terms of principles and physical laws enables students to identify and document the sources of noise and loading furnishes basic laboratory experiments in sufficient detail to minimize instructional time and features more than 850 display equations over 625 figures and end of chapter problems This impressive text written by masters in the field is the outstanding choice for upper level undergraduate and beginning graduate level courses in engineering measurement and instrumentation in universities and four year technical institutes for most departments Book jacket *Measurement of Thermal Radiation Properties of Solids* Joseph C. Richmond, 1963

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