

Session 1: Getting Started

Introduction to Model-Based Design

Overview of LabVIEW environment

Programming fundamentals: Front Panel &

Block Diagram

Session 2: Core Programming Concepts

Modular programming & SubVIs

Debugging techniques

Loops & Structures: For, While, Case

Sequence programming (Flat & Stacked)

Session 3: Data Handling & Visualization

Formula & Math Script Node

Arrays, Clusters & their functions

Graphs, Charts & Multiplot visualization

Strings & File I/O (logging, reading/writing data)

Error handling & application distribution
(executables)

Session 4: Hardware & Data Acquisition

Introduction to NI hardware: cDAQ, C Series

MAX configuration & DAQ basics

Analog I/O, scanning multiple inputs

Improving measurement quality

Session 5: Advanced Topics

Networking protocols: TCP, UDP, GPS, RFID

Arduino & myRIO interfacing with LabVIEW

Embedded systems basics: Digital I/O, Signal
Express

Coordinators

Dr. Santanu Kumar Dash

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Resource Person

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Director, CNET

Target Participants:

- UG & PG Students
- Research Scholars
- Academicians

Registration Link:

<https://events.vit.ac.in/>

Registration is limited to 30 based on
first come first serve

Participation Charges: 499 INR
(inclusive GST 18%)

Registration charges include snacks, lunch,
participation certificate & course material in soft
copy

Organized by

**Centre for Net Zero Technologies -
CNET**



TWO DAY NATIONAL WORKSHOP ON EMBEDDED CONCEPTS USING LABVIEW (HYBRID MODE) 25th & 26th Sep2026



CNET Key Areas

- Sustainable Charging Infrastructure
- Smart Sustainable Mobility
- Sustainable Energy Storage Devices
- Hydrogen Fuel Cells
- Circular Economy for Mobility
- PV Solar Systems