

LabVIEW CENTRE OF EXCELLENCE
C.V. Raman Global University, Bhubaneswar

LabVIEW Core 2

Sl. No	Topics	Theory Hours	Practical Hours	Total Hours
1	Variables Local Variables, Global Variables	1	2	3
2	Moving Beyond Dataflow Asynchronous Communication, Queues, Event – Driven Programming.	2	2	4
3	Quiz – 1 / Assignment – 1			2
4	Implementing Design Patterns Design Patterns, Simple Design Patterns, Multiple Loop Design Patterns, Error Handlers, Generating Error Codes and Messages, Timing Design Pattern.	3	3	6
5	Controlling the User Interface VI Server Architecture, Property Nodes, Invoke Nodes, Control References.	2	2	4
6	Quiz – 2 / Assignment – 2			2
7	Improving an existing VI Refactoring Inherited Code, Typical Refactoring Issues.	1	1	2
8	Deploying an application Preparing the files, Build Specifications, Create and Debug an application.	1	2	3
9	Quiz – 3 / Assignment – 3			2
	Lab Test			2

Theory	10 Hours
Practical	12 Hours
Quiz/Assignment	06 Hours
Lab Test	02 Hours
Total	30 Hours

LabVIEW CENTRE OF EXCELLENCE

C.V. Raman Global University, Bhubaneswar

COURSE: LabVIEW Core – 2

DURATION: 30 Hours

ELIGIBLE BRANCHES:

Electrical Engineering / Electronics and Communication Engineering / Mechanical Engineering / Computer Science and Engineering

TARGET GROUP

Graduate and Undergraduate Engineering Students with knowledge of LabVIEW Core – 1

OBJECTIVE

- Apply common design patterns that use queues and events
- Use event programming effectively
- Programmatically control user interface objects
- Evaluate file I/O formats and use them in applications
- Modify existing code for improved usability
- Prepare, build, debug, and deploy stand-alone applications

TRAINING METHODOLOGY

Explanation, Demonstration and hands-on practice.

COURSE CONTENTS

- Moving Beyond Dataflow
- Implementing Design Patterns
- Controlling the User Interface
- Improving an existing VI
- Deploying an application