

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

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**LabVIEW: NI ELVIS, NI DE FPGA, NI Smart Camera**

<b>Sl. No</b>	<b>Topics</b>	<b>No. of Hours</b>
1	Introduction to NI WSN Starter Kit	1
2	Hands on Session	1
3	Introduction to NI ELVIS	1
4	Testing the NI-ELVIS II Series	1
5	Measuring Values of Passive Components using NI ELVIS II	1
6	Operating the variable Power Supply of NI ELVIS II	1
7	Testing Diodes and Determining their polarity using NI ELVIS II	1
8	To plot Characteristic Curve of a Diode using NI ELVIS II	1
9	Introduction to NI DE FPGA Prototyping Board	1
10	Hands on Session	1
11	Introduction NI Smart Camera	1
12	Hands on Session	1
13	Introduction to NI LabVIEW Robotics	1
14	Hands on Session	1
15	Introduction NI LabVIEW Biomedical Toolkit	1
16	Hands on Session	1
17	<i>Quiz/Assignment</i>	2
18	<i>Lab Test</i>	2
	<b>Total No. of Hours</b>	<b>20</b>

# **LabVIEW CENTRE OF EXCELLENCE**

## **C.V. Raman Global University, Bhubaneswar**

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**COURSE:** LabVIEW: NI ELVIS, NI DE FPGA, NI Smart Camera

**DURATION:** 20 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**

- Gaining knowledge on NI ELVIS – II, Robotics, Smart Camera, Biomedical Toolkit, Wireless Sensor Network kit.
- Create & compile your LabVIEW FPGA
- Acquire and generate analog and digital signals, control timing, synchronize operations, and implement signal processing on the FPGA
- Design and implement applications using the LabVIEW FPGA module

**TRAINING METHODOLOGY**

Explanation, Demonstration and hands-on practice.

**COURSE CONTENTS**

- Introduction to NI DE FPGA,
- NI ELVIS – II,
- NI WSN,
- NI Smart Camera,
- NI Robotics.