



### **Objectives of NI – Center of Excellence “LabVIEW Academy” at KITSW**

#### **The key objectives of the center are to:**

- Train the students on LabVIEW platform as per the NI stipulated curriculum
- Make the students ready to take up certificate examinations
- Conduct online LabVIEW certification examinations
- Help students to carry out their mini and major projects in various domains using LabVIEW platform
- Train faculty members on LabVIEW platform, and thereby they can use the platform for their research work
- Conduct FDPs / Workshops / Seminars for the benefit of faculty and students

### **Key Benefits of NI LabVIEW Academy at KITS-W Campus**

#### **To Students:**

- NI will recognize KITS-W as authorized Training and Certification centre to conduct LabVIEW Core 1 & 2 courses at campus for the internal and external students
- With the establishment of NI Academy, KITS-W can conduct LabVIEW Certification courses and Return on investment can be met over a period of time
- After the successful completion of the course, KITS-W can issue participation certificate with NI logo to the participants

- NI offers free CLAD exam to KITS-W faculty for first attempt which is worth of \$150 per person
- NI offers 70% discount on CLAD exam fees for KITS-W students which is cost around INR 2000/- per head (after the discount) + GST as applicable
- NI will conduct Faculty Development Program at KITS-W for duration of two days on recent technology trends in Virtual Instrumentation & Graphical System Design.
- Students of KITS-W can use the facilities of LabVIEW Academy and build their final year project inside the campus
- Students of KITS-W can participate in NI national & International contests like NIYANTRA, Global Student Design Contest, FIRST Robotics, FRC, FLL, WRO etc...
- The same facility can be extended to provide consultancy for Small and Medium enterprises (SMEs)

#### **To Faculty:**

- Teaching engineering with more practical way and industry standard technology
- Completion of PhD using the NI LabVIEW Academy Centre facility
- Publications in National & International journals
- Joint proposal submission to funding agencies in association with NI technology
- Revenue generation by doing training & Consultancy


#### **To Institute:**

- NI Authorized LabVIEW Academy School
- NI Logo in the Participation Certificate
- MoU between National Instruments & Institute
- Institute name in flagship award winning website of NI and global recognition
- Transforming to Research and Development and industry collaboration
- Recognition with NAAC, NBA, ABET accreditation
- Multiple depts. (ECE, EEE, ICE, MECH, CIVIL, CSE, IT) can use the facility of Academy
- Career development and job opportunity through community

## Long term Support:

- NI will train the group of faculties & Students (10 + 30) for the duration of five days free of cost on each module as per the CDP chart and make it sure the academy will be self-sustained to run the courses and projects to students.
- Additional training will be on payment basis which will be decided mutually

COMPETENCE DEVELOPMENT PROGRAM					
II Year		III Year		IV Year	
Circuit Branch (ECE / EEE / EIE / ICE)	Non Circuit Branch (MECH / AERO / CIVIL / AUTO)	Circuit Branch (ECE / EEE / EIE / ICE)	Non Circuit Branch (MECH / AERO / CIVIL / AUTO)	Circuit Branch (ECE / EEE / EIE / ICE)	Non Circuit Branch (MECH / AERO / CIVIL / AUTO)
<b>Semester III</b>	<b>Semester III</b>	<b>Semester V</b>	<b>Semester V</b>	<b>Semester VII</b>	<b>Semester VII</b>
Topic: NI LabVIEW Graphical Programming	Topic: NI LabVIEW Graphical Programming	Topic: NI Real Time and FPGA Implementation	Topic: NI Real Time and FPGA Implementation	Topic: (any one) * Communication Embedded * Bio Medical * DIP * Controls	Topic: (any one) * Robotics * Automation * MCM / NVH * DIP * IC Engine
Duration: 40 Hours	Duration: 40 Hours	Duration: 40 Hours	Duration: 40 Hours	Duration: 40 Hours	Duration: 40 Hours
Syllabus: Attached	Syllabus: Attached	Syllabus: Attached	Syllabus: Attached	Syllabus: Attached	Syllabus: Attached
<b>Semester IV</b>	<b>Semester IV</b>	<b>Semester VI</b>	<b>Semester VI</b>	<b>Semester VIII</b>	<b>Semester VIII</b>
Topic: Electronic Circuit Simulation & Data Acquisition & Signal Conditioning	Topic: Electronic Circuit Simulation & Data Acquisition & Signal Conditioning	Topic: NI CLAD (Certified LabVIEW Associate Developer) exam	Topic: NI CLAD (Certified LabVIEW Associate Developer) exam	Final Real Time Project	Final Real Time Project
Duration: 40 Hours	Duration: 40 Hours	Duration: 40 Hours	Duration: 40 Hours	Duration: 12 Weeks	Duration: 12 Weeks
Syllabus: Attached	Syllabus: Attached	Syllabus: Attached	Syllabus: Attached	Topics: Attached	Topics: Attached



**KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE**  
(An Autonomous Institute under Kakatiya University)  
WARANGAL - 506 015

**National Instruments Center of Excellency**

**“LabVIEW Academy”**

**Pre-requisites**  
Participants should be familiar with the fundamental knowledge on computer and enthusiastic to innovate new concepts / ideas

**Audience**  
E. Tech - Any Branch  
M. Tech Any Branch

**LabVIEW Programme**  
Duration : 40 Hours per Core  
Batch Size : 30 Students  
Course Fee : Rs. 1000 per Core

**Organized By**  
LabVIEW Academy in association with National Instruments, Bengaluru

**Training on LabVIEW**  
\* Core - 1 \* Core - 2 \* Core - 3  
\* Core - 4 \* Core - 5 \* Core - 6

**Levels of Certification**  
Level-I: CLAD : Certified LabVIEW Associate Developer (Core -1 & 2)  
Level-II: CLD : Certified LabVIEW Developer (Core -3 & 4)  
Level-III: CLA : Certified LabVIEW Architect (Core-5 & 6)

**Curriculum**


- LabVIEW Basics
- Virtual Instruments (VIs)
- Editing and debugging VIs
- Sub VIs
- Structures, Arrays and Clusters
- Charts and Graphs
- Data acquisition
- Settings & File I/O, Analysis
- Applications in various engineering fields
- Project development

**Contact**  
Sri B. Yashu Maheshwari Rao, Asst. Prof., 98667725  
Sri B. Kishore Sundaraj, Asst. Prof., 9866776222

**Benefits**



• International certification from NI • Meet curriculum requirements • Doing experiments beyond the curriculum • Doing in-house final / pro-final year real time projects • Students can get globally recognized certification • Opportunity to get in to core engineering industries • Competing with globally challenging students with strong engineering knowledge • Participation in National & International Conferences • 70% discount on CLAD course fees

**Department of Electronics & Instrumentation Engineering**




**KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE**  
*(An Autonomous Institute under Kakatiya University)*  
WARANGAL - 506 015

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“LabVIEW Academy”



- **Commencement of training: 13.08.2018**
- **Last date for submission of application : 09.08.2018**
- **Limited seats in three batches**



**For Applications and Challans Contact:**  
  
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Sri B. Krishna Sundeep, Asst. Prof., 8886770533

**Department of Electronics & Instrumentation Engineering**

**Levels of National Instruments LabVIEW Certifications:**

**CLAD** : Certified LabVIEW Associate Developer

**CLD** : Certified LabVIEW Developer

**CLA** : Certified LabVIEW Architect

Currently the center is offering training in LabVIEW Core-1 training for three batches, with an intake of 30 students in each batch.

**Batch-1:** Monday, Tuesday (4.00 p.m to 6.00 p.m)

**Batch-2:** Wednesday, Thursday (4.00 p.m to 6.00 p.m)

**Batch-3:** Friday, Saturday (4.00 p.m to 6.00 p.m)

**For more details please contact:**

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**Dr. K. Venu Madhav**  
Academy Co-ordinator

**Dr. K. Sivani**  
HoD, E&IED

## **LabVIEW Toolkits & Modules:**

LabVIEW 2017 Professional Development System

LabVIEW Control Design and Simulation Module

LabVIEW MathScript RT Module

LabVIEW LEGO® MINDSTORMS® NXT Module

LabVIEW System Identification Toolkit

### **LabVIEW Digital Filter Design Toolkit**

LabVIEW Modulation Toolkit 4.3.3

LabVIEW Desktop Execution Trace Toolkit

LabVIEW Report Generation for Microsoft Office Toolkit

LabVIEW VI Analyzer Toolkit

### **LabVIEW Database Connectivity Toolkit**

LabVIEW Data Finder Toolkit

LabVIEW SignalExpress 2012

LabVIEW Multicore Analysis and Sparse Matrix Toolkit

### **NI Vision Development Module**

NI Vision Builder for Automated Inspection

NI-ELVISmx 4.4

NI-DAQmx 9.5.5

NI LabWindows™/CVI Full Development System

LabWindows/CVI Real-Time Module

LabWindows/CVI Signal Processing Toolkit 7.0.2

LabWindows/CVI Spectral Measurements Toolkit 2.6.3

LabWindows/CVI PID Toolkit 2.1

LabWindows/CVI Execution Profiler 1.0

LabWindows/CVI SQL 2.2

NI Measurement Studio Enterprise Edition

NI DIAdem Professional (English, German, and Japanese)

LabVIEW FPGA Module (English, Chinese, and Japanese)

### **LabVIEW FPGA Xilinx Tools 12**

### **LabVIEW SP1 Real-Time Module**

NI Real-Time Execution Trace Toolkit 2.0.5

LabVIEW Datalogging and Supervisory Control (DSC) Module

### **LabVIEW Robotics Module**

### **LabVIEW Touchpanel Module**

LabVIEW Simulation Interface Toolkit

LabVIEW PID Control and Fuzzy Logic Toolkit

LabVIEW Electrical Power Measurement Suite

LabVIEW Statechart Module

### **LabVIEW SoftMotion Module**

### **LabVIEW GPU Toolkit 2012**

NI Motion Assistant 2.8.0

NI VeriStand (*Download Only*)

LabVIEW Spectral Measurements Toolkit 2.6.3

LabVIEW Advanced Signal Processing Toolkit

LabVIEW Sound and Vibration Measurement Suite

LabVIEW Adaptive Filter Toolkit