

Course Report on Certified LabVIEW Associate Developer Course

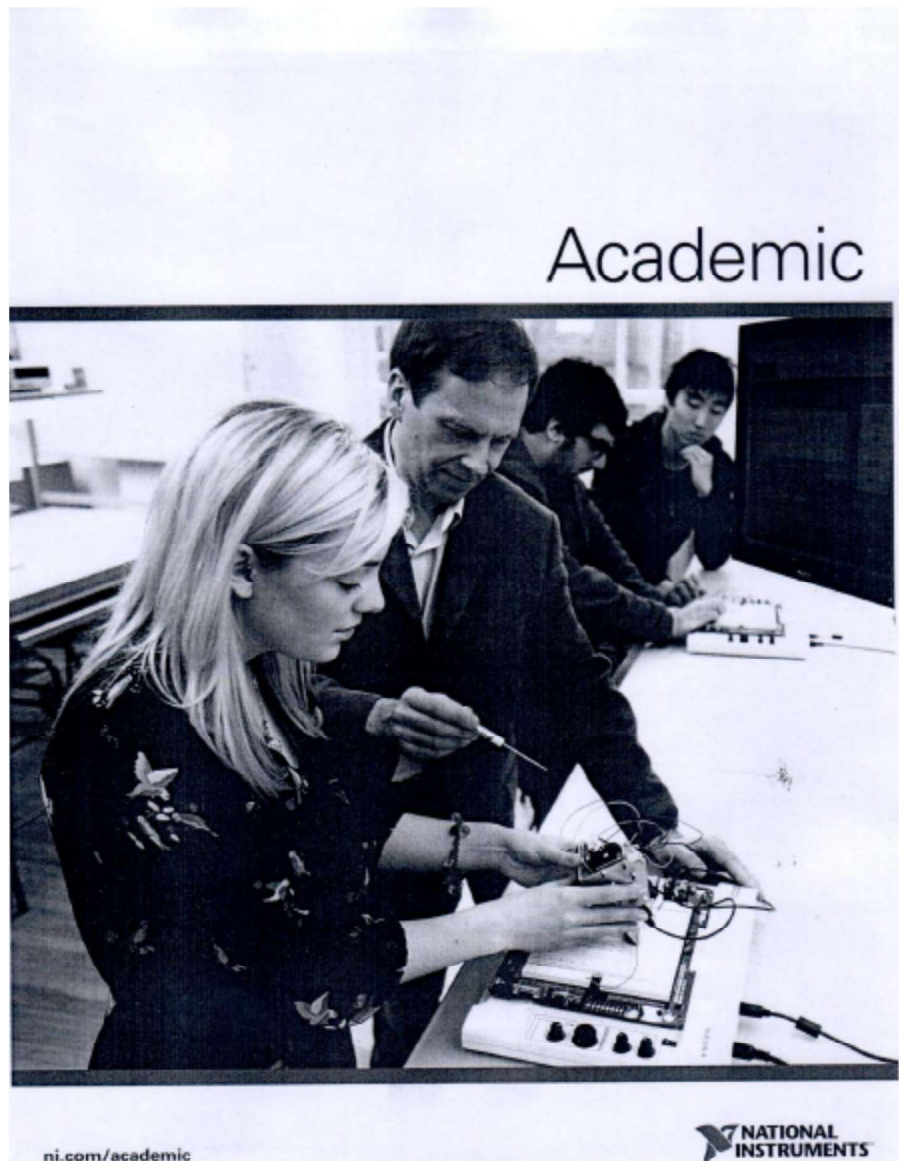
(AY 2016-17)

Offered for	ECE & EEE
Industry Partner	
Resource Person	
Number of Hours	45
Number of Students Participated	35



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R&D Institute of Science and Technology
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Course Pamphlet / Broachers



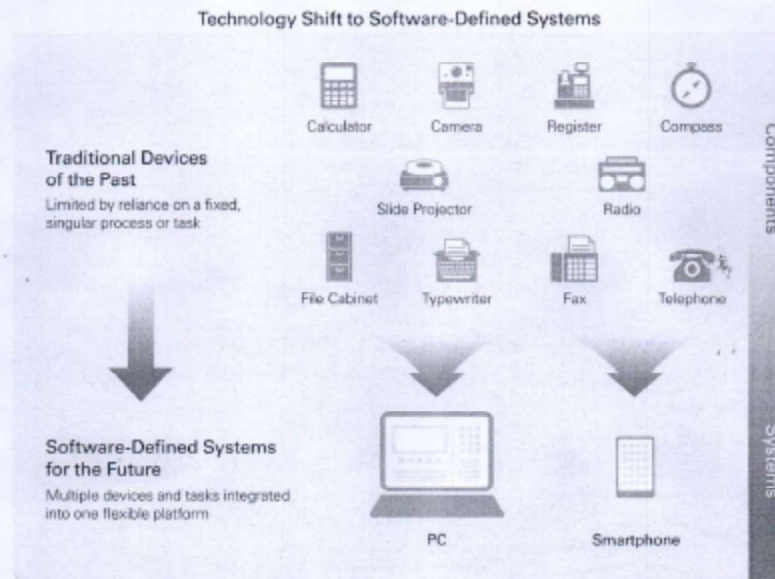


Preparing the Next Generation of Innovators

The first telephones converted human speech into electrical impulses using purely analog methods—no buttons, no encoding—for the sole purpose of connecting one user to another. The smartphones of today? Try tens of millions of transistors powered by software and capable of countless functions. Such is the power of progress and the influences of Moore's law, which says that speed is doubled and cost is halved as technology advances.

As electronic hardware and computer software become ubiquitous in modern systems, the days of designing a single component or focusing on an isolated problem are over. Engineers can now leverage rapid technological growth through integration, while students are expected to understand how single components function in a larger system.

To deliver industry-standard technology to the engineers of tomorrow, NI pairs theory with hands-on learning to create real-world experiences that prepare students to "do engineering." By integrating intuitive software and adaptable hardware to abstract complexity, students can design and test systems faster. Whether students graduate with a degree in mechanical, biomedical, or electrical engineering, it's certain they'll be system designers. And with an array of best-in-class industry and educational hardware and graphical software, National Instruments is the company that provides the tools for the future of system design.



ni.com/academic



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It All Starts With Academic

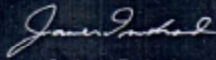
From space exploration to making clean water more globally accessible, the most impressive scientific achievements are also the kind that inspire students to pursue math and science as a career. But once the imagination of future engineers has been captured, we need to keep them interested.

As more educators recognize the benefits of an integrated hardware/software teaching solution and hands-on learning to engage students, I'm excited by our potential to change engineering education for the better.

The key is realizing that theory alone doesn't excite a student's sense of wonder—it's the promise of putting theory to work through the use of real-world tools to "do engineering." With this approach, we not only prepare current students for meaningful careers but also attract new students to a profession that so critically needs them.

Educators must focus on adopting relevant tools and incorporating practical, real-world lessons into the classroom and laboratory. Industry must develop scalable tools, show students how to leverage their creativity through the use of these tools, and make them widely available and affordable. This mutual effort is critical to ensuring student engagement.

It all starts with academic, and here at National Instruments, we're committed to working hand in hand with educators to prepare the students of today to solve the grand challenges of tomorrow.


Dr. James Truchard
Founder and CEO
National Instruments



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Syllabus

Lesson 1

Setting Up Hardware

- A. DAQ Hardware
- B. Using DAQ Software
- C. Instrument Control
- D. GPIB
- E. Serial Port Communication
- F. Using Instrument Control Software
- G. Course Project

Lesson 2

Navigating LabVIEW

- A. Virtual Instruments (VIs)
- B. Parts of a VI
- C. Starting a VI
- D. Project Explorer
- E. Front Panel
- F. Block Diagram
- G. Searching for Controls, VIs and Functions
- H. Selecting a Tool
- I. Dataflow
- J. Building a Simple VI

Lesson 3

Troubleshooting and Debugging VIs

- A. LabVIEW Help Utilities
- B. Correcting Broken VIs
- C. Debugging Techniques
- D. Undefined or Unexpected Data
- E. Error Checking and Error Handling



Lesson 4

Implementing a VI

- A. Front Panel Design
- B. LabVIEW Data Types
- C. Documenting Code
- D. While Loops
- E. For Loops
- F. Timing a VI
- G. Iterative Data Transfer
- H. Plotting Data
- I. Case Structures

Lesson 5

Relating Data

- A. Arrays
- B. Clusters
- C. Type Definitions

Lesson 6

Managing Resources

- A. Understanding File I/O
- B. Understanding High-Level File I/O
- C. Understanding Low-Level File I/O
- D. DAQ Programming
- E. Instrument Control Programming
- F. Using Instrument Drivers

Lesson 7

Developing Modular Applications

- A. Understanding Modularity
- B. Building the Icon and Connector Pane
- C. Using SubVIs

Lesson 8

Common Design Techniques and Patterns

- A. Using Sequential Programming
- B. Using State Programming
- C. State Machines
- D. Using Parallelism



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Lesson 9

Using Variables

- A. Parallelism
- B. Variables
- C. Functional Global Variables
- D. Race Conditions

Appendix A

Analyzing and Processing Numeric Data

- A. Choosing the Correct Method for Analysis
- B. Analysis Categories

Appendix B

Measurement Fundamentals

- A. Using Computer-Based Measurement Systems
- B. Understanding Measurement Concepts
- C. Increasing Measurement Quality



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Certificates / Supporting Documents

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R&D, Arudi/Air Tech Road, Arudi, Chennai - 600 062, Tamil Nadu, INDIA

GIFT COUPON FOR BEST AWARD IN INDUSTRIAL VISIT
(with effect from 15.03.2011)

Serial No: **1951** Date: **18/4/16**

Name of the Industry and Address: **Regional Micrological Centre, Nungambakam, Chennai**

IV No.:

Marks: **9.9**

Student Name: **O. Monika Grayathoi**

ID No: **8V-841**

Degree: **B.Tech Year 2**

Department: **ECE**

Semester: **4**

College Name: **VTV**

Amount (Rupees in words): **Two thousand only**

Date of Industrial Visit: **15/4/16**

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2	Microsoft	Microsoft Certified System Administrator	180	4	18000
3	Oracle	Oracle Certification Program	60	3	9000
4	Sun Microsystems	Sun Certified Java Programmer Sun Certified Web Component Developer	40 40	1 1	5000 5000
5	Redhat	Red Hat Certified Engineer	104	3	5000
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11	National Instruments	Lab View Certification Program			

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Certificate of Achievement for successful
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Awarded to

A. PREM KUMAR

of III year ELECTRONICS AND COMMUNICATION

Department for the duration 1.10.16 to 25.3.17

Instructor

Vice Chancellor

NI LabVIEW Academy Coordinator





Debit Request for NI LabVIEW Certification Course

I B. Rajeev doing my B.tech degree specialized in
Branch ECE & Semester V Sec: A at VTU/VTHT/VTMT/VTRS
/ VA / CMS College. I am interested to study a Certification course on NI LAB VIEW
which costs Rs. 9000/- In words Nine
Thousand only. I request you to kindly debit the above mentioned
amount. HOSTLER / DAY SCHOLLAR

Thanking you,

ID No: VTU 4867

B. Rajeev
Signature

Cell No: 9441593539

Email Id: bommu rajeev@gmail.com

Debit Request for NI LabVIEW Certification Course

I D. Monika Gayathri doing my B.Tech degree specialized in
Branch ECE & Semester V Sec: B at VTU/VTHT/VTMT/VTRS
/ VA / CMS College. I am interested to study a Certification course on LABVIEW
which costs Rs. 2,000/- In words Two
thousand rupees only. I request you to kindly debit the above mentioned
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Thanking you,

ID No: VTU4926

Signature

D. Monika Gayathri

Cell No: 9600098327

Email Id: mnkgayathri@gmail.com

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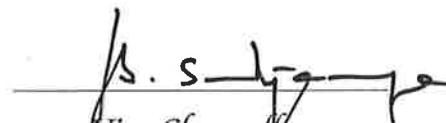
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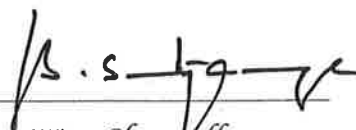
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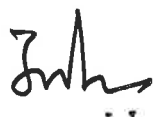
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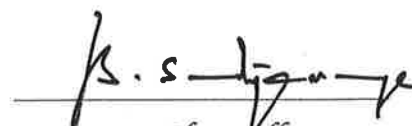
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Avadi, Chennai. INDIA

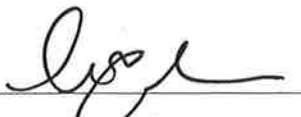
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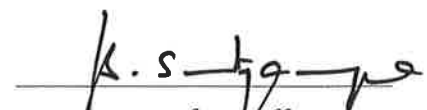


*Certificate of Achievement for successful
completion of an NI LabVIEW core 1 & Core 2 course*

Awarded to

GANGARAJU HEMANTH
of II year ELECTRONICS AND COMMUNICATION
Department for the duration 1.10.16 to 25.3.17


Instructor


Vice Chancellor



NI LabVIEW Academy Coordinator

