



VESIT- NI LABVIEW Academy

Introduction & Summary

Coordinator: Mrs. Kanchan Chavan

Instructors: Mrs. Kanchan Chavan, Mr. Kader Shaikh, Mrs. Sangeeta Ram, Mrs. Nilima Warke

LabVIEW Academy was founded in Jan 2014 in VESIT-Instrumentation Dept in collaboration with National Instruments (USA). Three faculty members from instrumentation dept. - **Mrs. Kanchan Chavan, Mr. Kader Shaikh, Mrs. Nilima Warke** - have obtained **Certified LabVIEW Associate Developer (CLAD) certification** from National Instruments.

Under NI LabVIEW Academy, Instrumentation Dept has been conducting workshops on “**LabVIEW Core 1 and Core 2**” since Jan 2014. **40 Hrs.** workshop is scheduled on 6 full days. These workshops are conducted during **one week** prior to the start of the semester of every year. S.E./T.E./B.E. instrumentation students have attended this workshop. Students from other engineering colleges who are working in industries, have attended this workshop to enhance their skillset. So far **73 students** have successfully completed this workshop.

Laboratory Virtual Instrument Engineering Workbench (LabVIEW) is systems engineering software for applications that require test, measurement, and control with rapid access to hardware and data. Combined with a graphical programming syntax, LabVIEW reduces programming time. This course helps students to create logic and interactive front panel for the end user in their BE projects/SCCD mini projects etc. Moreover, LabVIEW is one of the powerful tool in Industrial Automation, Engineering, R&D where the practical applications include data acquisition, Measurement and control, Automated Manufacturing and many more.



VESIT- NI LABVIEW Academy

LabVIEW Core 1 and Core 2 course

Coordinator: Mrs. Kanchan Chavan

**Instructors: Mrs. Kanchan Chavan, Mr. Kader Shaikh, Mrs. Sangeeta Ram,
Mrs. Nilima Warke**

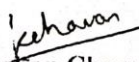
Prepared By: Mrs. Kanchan Chavan

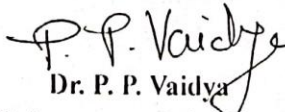
Under NI LabVIEW academy in collaboration with National Instruments (USA), training programme on "LabVIEW Core1 and Core2 course" was conducted from 2nd July to 9th July 2018. 4 Students participated in this course.

Final year instrumentation VESIT - 1 student and third year instrumentation VESIT - 3 students attended this course.

The course contents are-

LabVIEW Programming Environment: components of LabVIEW, data flow, Troubleshooting and debugging VI, Implementing a VI: Data Types, documenting code, while, for loops, Timing a VI, iterative data transfer, plotting data, structures, relating data: arrays, clusters and type definition, common design techniques and patterns: sequential programming, state machines architectures, events, timing a design pattern and event programming, Data management techniques: Communicating among multiple loops: variables, functional global variable, rare condition, synchronizing data transfer, File I/O techniques: Low high and advanced, Data Acquisition and interfacing instruments: hardware setup, software, measuring analog input, generating analog output, instrument control: using GPIB, serial port, software architecture, Instrument I/O assistant, Visa and instrument drivers.


Mrs. Kanchan Chavan
Course Co-ordinator


Dr. P. P. Vaidya
HOD, Instrumentation Dept



VESIT-NI LabVIEW Academy

LabVIEW course : Core 1 & Core2

2nd -9th July, 2018

Sr. No.	2 nd July 18	4th July 18	5 th July 18	6 th July 18	7 th July 18	9 th July 18
1	8.30-9.30am Navigating LabVIEW --(KC)	Relating Data (SPR)	Managing Resources (KS)	Common Design Techniques(KC)	Event Programming (KS)	File I/O Techniques (KC)
	9.30-9.45am	BREAK				
2	9.45-10.45am Navigating LabVIEW (KC)	Relating Data (SPR)	Managing Resources (KS)	Common Design Techniques (KC)	Event Programming (KS)	File I/O techniques (KC)
3	10.45-11.45am Troubleshooting & Debugging VIs -(KC)	Relating Data (SPR)	Managing Resources (KS)	Common Design Techniques (KC)	Error Handling (NW)	Improving an Existing VI (NW)
4	11.45-12.45pm Troubleshooting & Debugging VIs -(KC)	Relating Data (SPR)	Common Design Techniques and Patterns (KS)	Synchronisation Techniques (KS)	Error Handling (NW)	Creating & Distribution application (NW)
	12.45-1.15pm	BREAK				
5	1.15-2.15pm Implementing a VI -(KC)	Modular application (SPR)	Common Design Techniques & Patterns (KS)	Synchronisation Techniques (KS)	Controlling the User Interface (KC)	Creating & Distribution application (NW)
6	2.15-3.15pm Implementing a VI -(KC)	Modular application (SPR)	Using Variables (KS)	Event Programming (KS)	Controlling the User Interface (KC)	
7	3.15-4.15pm Implementing a VI -(KC)	Managing Resources (KS)	Using Variables (KS)	Event Programming (KS)	Controlling the User Interface (KC)	

KC: Mrs. Kanchan Chavan
KS: Mr. Kader Shaikh
SPR: Mrs. Sangeeta P Ram
NW: Mrs. Nilima Warke

H.O.D
(Instrumentation Department)
Dr. P. P. Vaidya



LabVIEW Workshop 2 to 9 July 2018

Student Details

Sr. No.	Name of Student	Year	Email-ID	Contact No
1	Neelay Y. Muranjan	Third Year Instrumentation	2016.neelay.muranjan@ves.ac.in	9819466568
2	Aditya Prasad Kale	Third Year Instrumentation	2016.aditya.kale@ves.ac.in	9820483170
3	Ashwin Balakrishnan Pillay	Third Year Instrumentation	2016.ashwin.pillay@ves.ac.in	9619590224
4	Utkarsha M Chaudhari	Fourth Year Instrumentation	2015utkarsha.chaudhari@ves.ac.in	7588394618



LabVIEW Workshop 2 to 9 July 2018

Student Attendance

Sr. No.	Name of Student	2 nd July 2018	4 th July 2018	5 th July 2018	6 th July 2018	7 th July 2018	9 th July 2018
1.	Neelay Y. Muranjan	<i>NMuranjan</i>	<i>NMuranjan</i>	<i>NMuranjan</i>	<i>NMuranjan</i>	<i>NMuranjan</i>	<i>NMuranjan</i>
2.	Aditya Prasad Kale	<i>Aditya</i>	<i>Aditya</i>	<i>Aditya</i>	<i>Aditya</i>	<i>Aditya</i>	<i>Aditya</i>
3.	Ashwin Balakrishnan Pillay	<i>Ashwin</i>	<i>Ashwin</i>	<i>Ashwin</i>	<i>Ashwin</i>	<i>Ashwin</i>	<i>Ashwin</i>
4.	Utkarsha M Chaudhari	<i>Utkarsha</i>	<i>Utkarsha</i>	<i>Utkarsha</i>	<i>Utkarsha</i>	<i>Utkarsha</i>	<i>Utkarsha</i>

Sample Photos and Certificates





V.E.S.

Since 1962

VIVEKANAND EDUCATION SOCIETY

V.E.S. Institute of Technology



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

Awarded to

Neelay Y. Muranjan

For the duration from *2nd July 2018* to *9th July 2018*

Kecharan
Instructor



P.P. Vaidya
Principal / HOD

Indhu
NI LabVIEW Academy Coordinator





VIVEKANAND EDUCATION SOCIETY

V.E.S. Institute of Technology



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

Awarded to

Aditya Prasad Kale

For the duration from *2nd July 2018* to *9th July 2018*

Keshavan
Instructor *Mesole*



P.P. Vaidya
Principal / HOD

[Signature]
NI LabVIEW Academy Coordinator

