



2016-2017

**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**

**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 **6th Jan to 12th Jan 2017**. Third year instrumentation (10 students) engineering students participated in 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

6<sup>th</sup> -12<sup>th</sup> Jan, 2017

Sr. No.		6 <sup>th</sup> Jan 17	7 <sup>th</sup> Jan 17	9 <sup>th</sup> Jan 17	10 <sup>th</sup> Jan 17	11 <sup>th</sup> Jan 17	12 <sup>th</sup> Jan 17
1	8.30-9.30am	Navigating LabVIEW --(KC)	Relating Data --(KS)	Managing Resources (KS)	Common Design Techniques(KC)	Event Programming (KS)	File I/O Techniques (KC)
	9.30-9.45am	<b>BREAK</b>					
2	9.45-10.45am	Navigating LabVIEW (KC)	Relating Data --(KS)	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 --(KS)	Managing Resources (KS)	Common Design Techniques (KC)	Error Handling (KC)	Improving an Existing VI (KC)
4	11.45-12.45pm	Troubleshooting & Debugging VIs --( KC)	Relating Data --(KS)	Common Design Techniques and Patterns (KS)	Synchronisation Techniques (KS)	Error Handling (KC)	Creating & Distribution application (KC)
	12.45-1.15pm	<b>BREAK</b>					
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 (KC)
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 (20 hrs)  
KS: Mr. Kader Shaikh (18 hrs)  
SPR: Mrs. Sangeeta P Ram (2 hrs)

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



Afternoon

## VES Institute of Technology

Department of Instrumentation

NI LabVIEW Academy

6<sup>th</sup> to 12<sup>th</sup> January, 2017

Sr No	Name	Sign					
		6/11	7/11	8/11	10/11	11/11	12/11
1	Aniket Naiv						
2	Ashish Mhabe						
3	Hitendra Mhabe						
4	Kishan Singh						
5	Ajinkya Deshpande						
6	ONKAR KAMBLE						
7	Jimit. Patel						
8	Avinash S						
9	Yash Parmar						
10	Satyam S. Tadar						
11	Shalaka S. S.						
12	Shivani Kulkarni						
13	Sanya Shethgao						
14	Rutuja D. More						
15	Siddhesh S. Bandekar						
16	Rishabh Kamatkar						
17							
18							
19							
20							

Students continued from last workshop.



**NI LabVIEW Academy  
Student's details 6<sup>th</sup> Jan to 12<sup>th</sup> Jan 2017**

Sr.No.	Name	Email id	Mobile no
1	Kunwar kishan singh	kunwar.singh @ves.ac.in	9773131058
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4	Aniket Nair	aniket.nair@ves.ac. in	9819574471
5	Satyam Yadav	satyam.yadav@ves.ac.in	7045133844
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8	Ashish Mhatre	Ashish.mhatre@ves.ac.in	9833999052
9	Jimit Patel	Jimit.patel.jp@gmail.com	9769457498
10	Yash Parmar	yash.parmar@ves.ac.in	-

**Sample Photo**

