



RAJEEV INSTITUTE OF TECHNOLOGY, HASSAN
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Report of Five Day Workshop on
“Virtual Instruments using LabVIEW” Organized by the
Department of Electronics and Communication Engineering,
Rajeev Institute of Technology, Hassan
From 2nd May to 6th May 2023 in association with IETE, Myuru section

The Department of Electronics and Communication Engineering has organized five day Workshop entitled “Virtual Instruments using LabVIEW” for selected members of 6th semester and Faculties in association with IETE, Mysuru section. A total of 11 students and 6 faculties participated in the workshop.

LabVIEW (Laboratory Virtual Instrument Engineering Workbench) provides a powerful and integrated environment for the development of various instrumental applications. An efficient LabVIEW application is designed without unnecessary operations, with minimal occupation including code, data, block diagram, front panel, and GUI updates. It eliminates human errors in data collection and process operations. It reduces data transcription errors and more reliable data available makes better quality control of products and new discoveries.

Objectives of the workshop:

- To understand the working environment of LabVIEW
- To explore the various toolboxes available in LabVIEW
- To understand the interfacing with related hardware

Outcome of the workshop:

- Students will be able to identify the depth of LabVIEW
- Students are able to identify the interfacing of LabVIEW with related hardware
- Students are able to identify the area of their interest that can be implemented using LabVIEW

Participants are happy to continue the learning of it during the internship program and also conveyed their learning outcomes to other students.



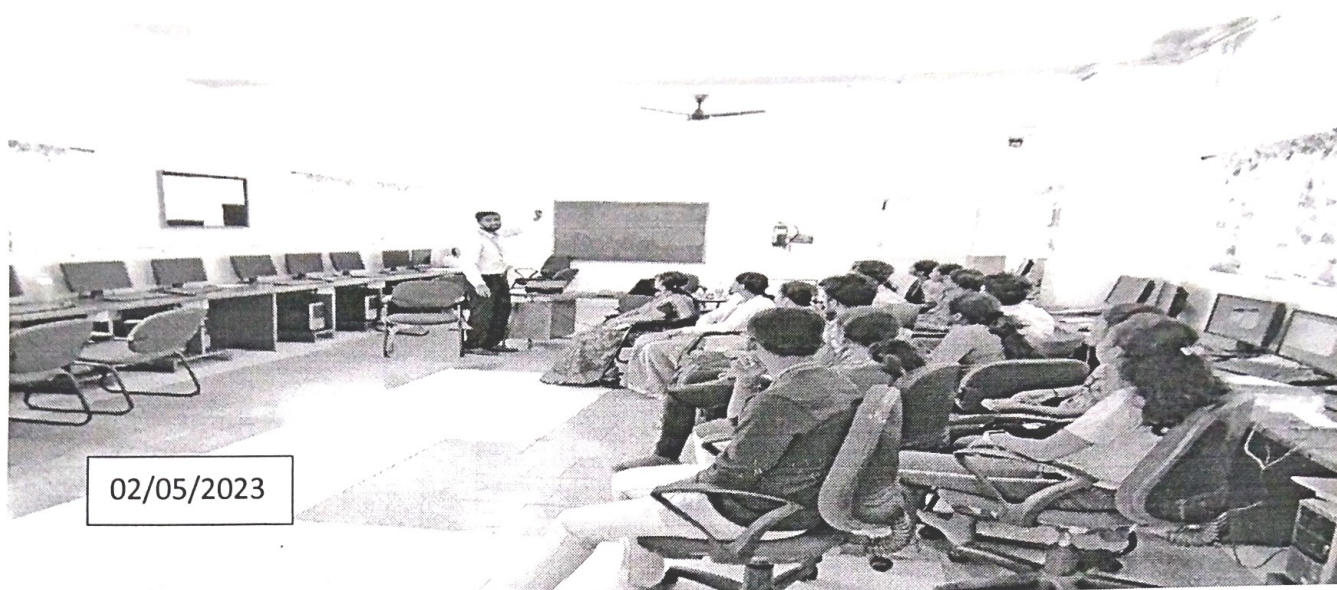
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Time	Topic	Resource Person
Day 1 (02/05/2023)		
9 am to 1 pm	<ul style="list-style-type: none">• NI product and its services• Graphical system design environment Front panel and block diagram	Mr. P Rohith Goud, Technical lead, TechnoFluent Pvt Ltd, Hyderabad
2 pm to 5 pm	<ul style="list-style-type: none">• Data types numeric with examples• Boolean with examples• String with examples	
Day 2 (03/05/2023)		
9 am to 1 pm	<ul style="list-style-type: none">• Case Structures with examples• For loop and Tunnel concept• While Loops Arrays and Important functions	Dr. N Bala Dastagiri, H R, TechnoFluent Pvt Ltd, Hyderabad
2 pm to 5 pm	<ul style="list-style-type: none">• Clusters and Examples• ENUM Data type• Graphs and Charts	
Day 3 (04/05/2023)		
9 am to 1 pm	<ul style="list-style-type: none">• Examples on the graphs and charts• Chart update modes• Flat and Stacked sequence structure	Mr. P Rohith Goud, Technical lead, TechnoFluent Pvt Ltd, Hyderabad
2 pm to 5 pm	<ul style="list-style-type: none">• Virtual instruments, Local variable and global variable.• Event structures	
Day 4 (05/05/2023)		
9 am to 1 pm	<ul style="list-style-type: none">• Introduction to NI myDAQ hardware, ELVIS Mx instrument launcher• Introduction to NI myDAQmx programming	Mr. P Rohith Goud , Technical lead, TechnoFluent Pvt Ltd, Hyderabad
2 pm to 5 pm	<ul style="list-style-type: none">• Low level programming• High level programming	
Day 5 (06/05/2023)		
9 am to 1 pm	<ul style="list-style-type: none">• Introduction to Moku Go• Interfacing Oscilloscope, waveform generator• Virtual instruments, Local variable and global variable	Mr. P Rohith Goud , Technical lead, TechnoFluent Pvt Ltd, Hyderabad
2 pm to 5 pm	<ul style="list-style-type: none">• Interfacing Moku Go with Lab VIEW	

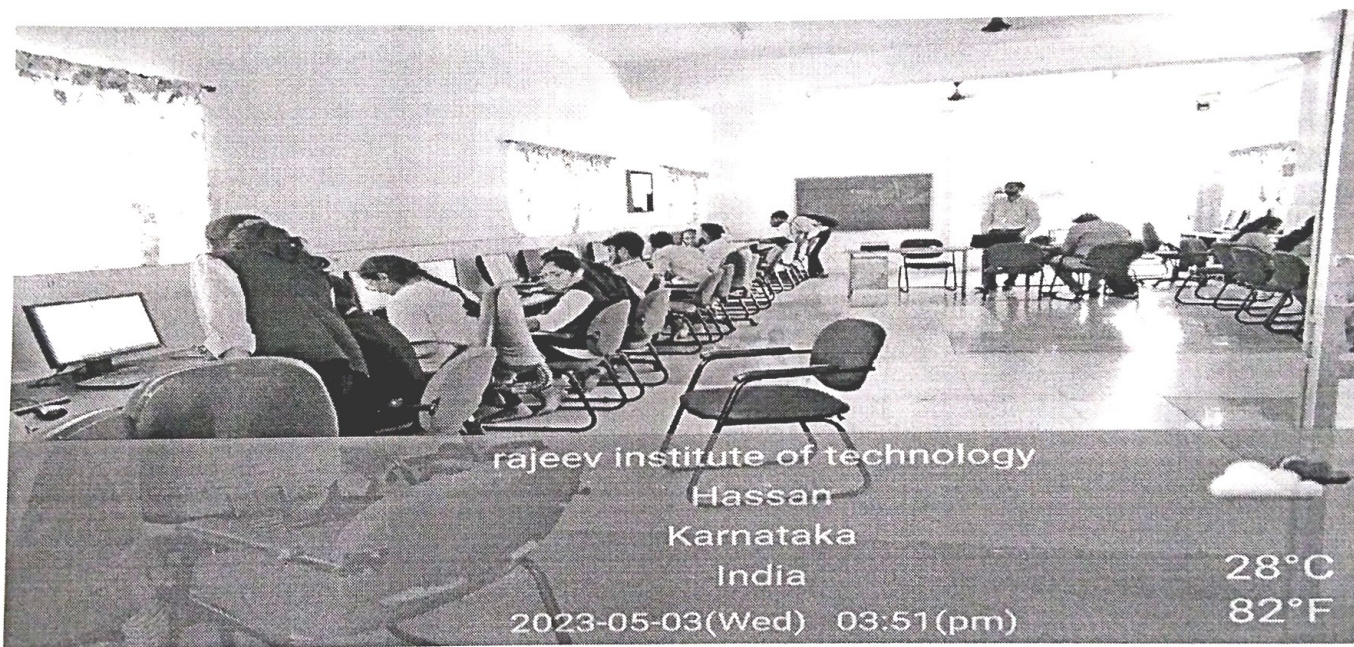


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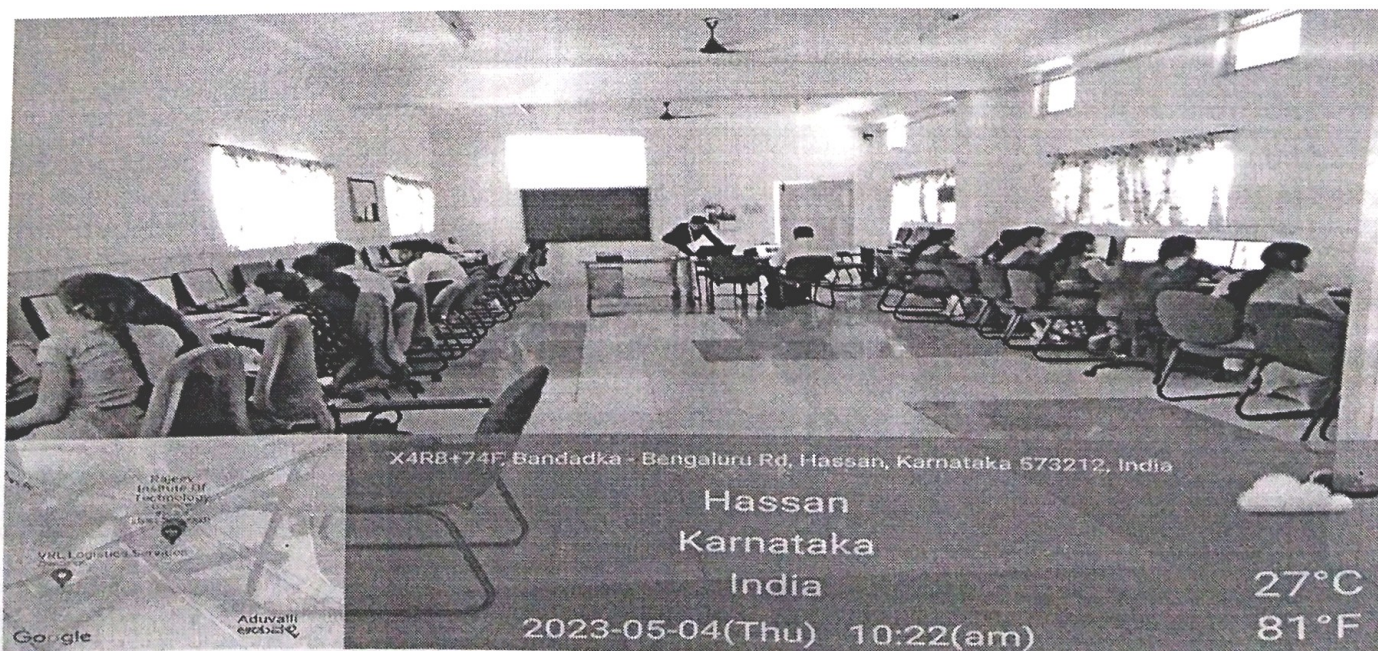


02/05/2023



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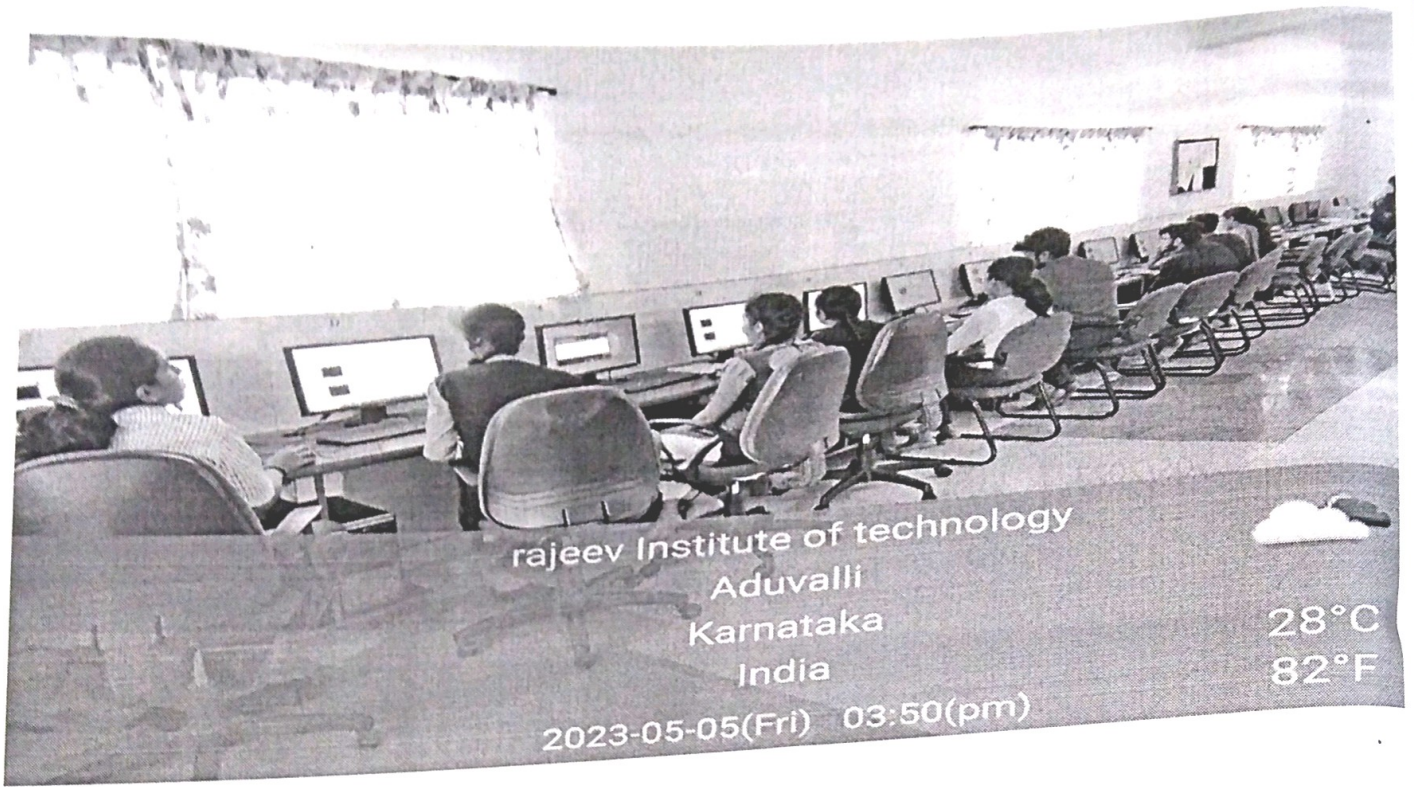
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