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Workshop on "Virtual Programming" Department of ECE

Report for Workshop on "**Virtual Programming**"

Overview

A workshop on **Virtual Programming** was organized by the Department of Electronics and Communication Engineering on 21st April 2023 and 29th April 2023 for the ECE and EEE students and the resource persons for the program were

Dr.M.Thilagaraj, Associate Professor, MVJCE and

Mr.M.Ponnaiah, LabVIEW Developer, NIVE Technologies and NIVE Systems Private Ltd, Bangalore.

The welcome address and Inaugural speech were given by the HoD / ECE **Dr. I. Hameem Shanavas**. The Venue was NI LabVIEW academy (Room No 201).

Day 1 (21/04/2023): Introduction and Applications of LabVIEW

All sessions on the first day was handled by Dr.M.Thilagaraj for this workshop. He started the first day session with the importance and use of LabVIEW programming in industries. He then started the class with the basics of programming in LabVIEW with Introduction and Applications of LabVIEW. The other topics that were discussed related to LabVIEW were numeric and boolean palettes, data types and data flow programming, modular programming, In-range and coerce function, Select function, Task Sheet Solving on this day. This workshop was providing all the students with the graphical programming environment. All students were able to relate the modularity of LabVIEW and they were interestingly involved in developing solutions to the tasks by using different logic.

Day 2 (29/04/2023): **Core I Programming Concepts in LabVIEW**

The second day session was fully handled by Mr.M.Ponnaiah who explained key concepts like Polymorphism, Structures - Case structure, Sequence and timed structure,

Debugging techniques and coercion dot, Formula node and expression node, Variables - Local and Global, Customizing Front Panel Controls - Controls, Type def, Strict Type def. In this week all students involved themselves in developing many programs using LabVIEW. He demonstrated the projects currently being done in his industy. He also gave hints for developing innovative projects using LabVIEW.

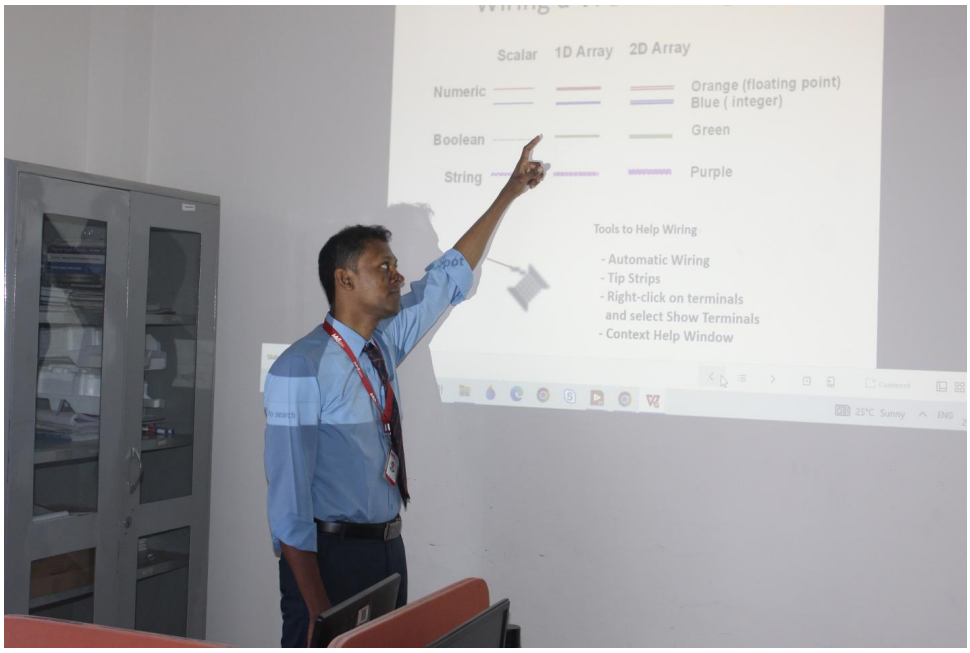

Figure 1: Dr.M.Thilagaraj handling the session on basics of Virtual Programming.

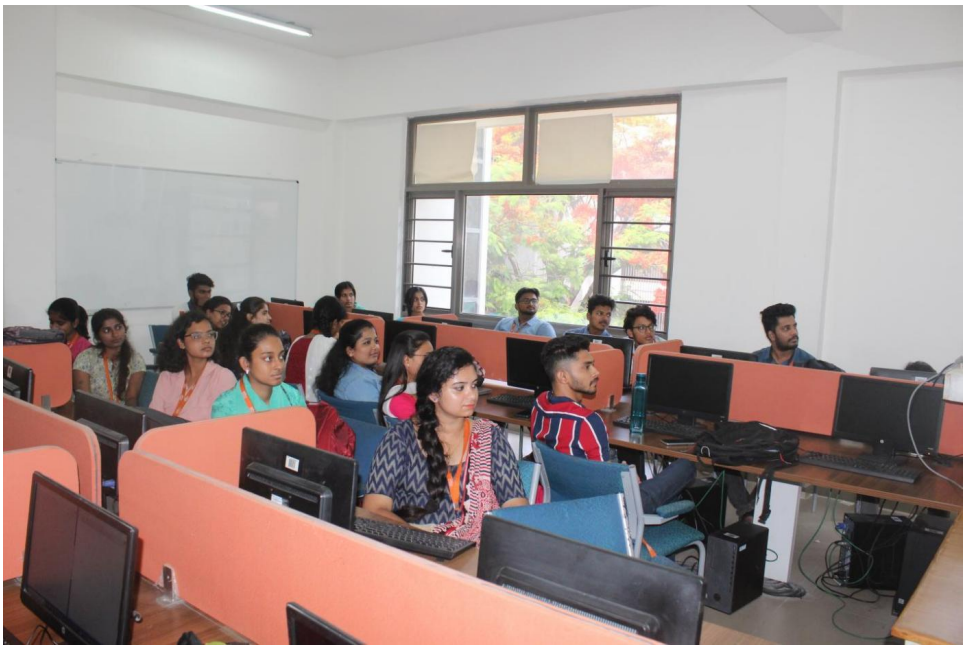

Figure 2: Students listening to the presentation during the workshop

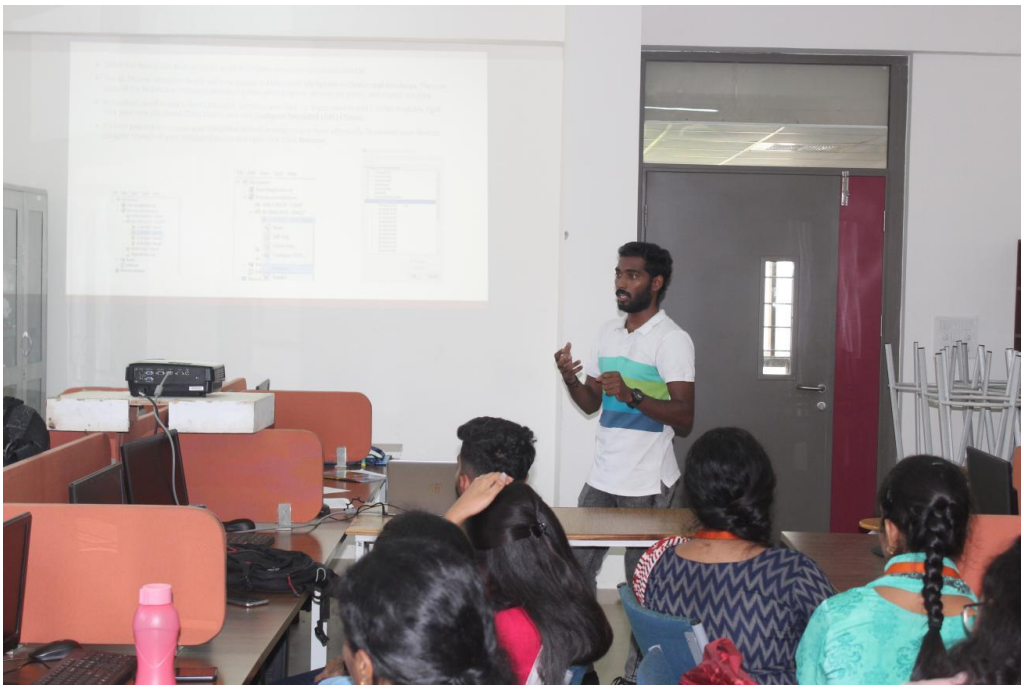

Figure 3: Mr.M.Ponnaiah handling the session during the workshop

Overall, 31 students participated in this workshop. This workshop was a good learning experience for the all the participants. They had the opportunity to learn and discuss virtual programming using LabVIEW.

In the conclusion, the several programs were done and students developed immense interest in the applications of Virtual Programming.

OUTCOME:

Out of the 31 students attended all got insights about the virtual programming using LabVIEW and they were able to take LabVIEW for their carrier growth and many students had got ideas to do different projects and they will do projects and internships in near future. Also the students got many industries working using LabVIEW. This workshop was concluded with certificate distribution ceremony to all the students.