

# WORKSHOP: BASICS OF LabVIEW

11<sup>th</sup> FEBRUARY, 2020

G H PATEL COLLEGE OF ENGINEERING AND TECHNOLOGY

## INTRODUCTION:

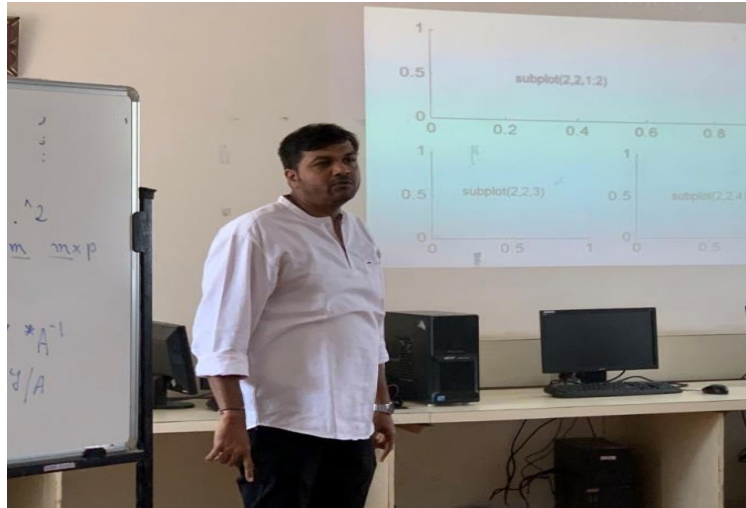
IAS-PES Joint Chapter of IEEE GCET SB organized a workshop on “**Basics of LabVIEW**” on 11<sup>th</sup> February, 2020. The workshop was exclusively for 2<sup>nd</sup> Year Students of Electronics and Communication Engineering Department. The workshop was conducted by **Dr Kavindra Jain** and **Prof. Samir Trapasiya**, faculties of Electronics and Communication Engineering Department, G H Patel College of Engineering and Technology.



Dr Kavindra Jain covered the basics of LabVIEW. He demonstrated the designing of a circuit using the software and explained different types of features of the LabVIEW toolbox. He extrapolated on how those features are used to make different models. Various methods to perform arithmetical and logical operations were also explored by Dr Jain as he guided students in performing hands-on experiment related to every concept that was discussed.

### **ABOUT THE SPEAKER: Dr Kavindra Jain**

Dr Kavindra Jain completed his PhD in 2018 from R.K University, Rajkot. He specializes in Image processing and Machine Vision. He has more than 10 years of teaching and research experience. Currently, he is serving as Assistant Professor in Electronics and Communication Engineering Department at G H Patel College of Engineering and Technology.



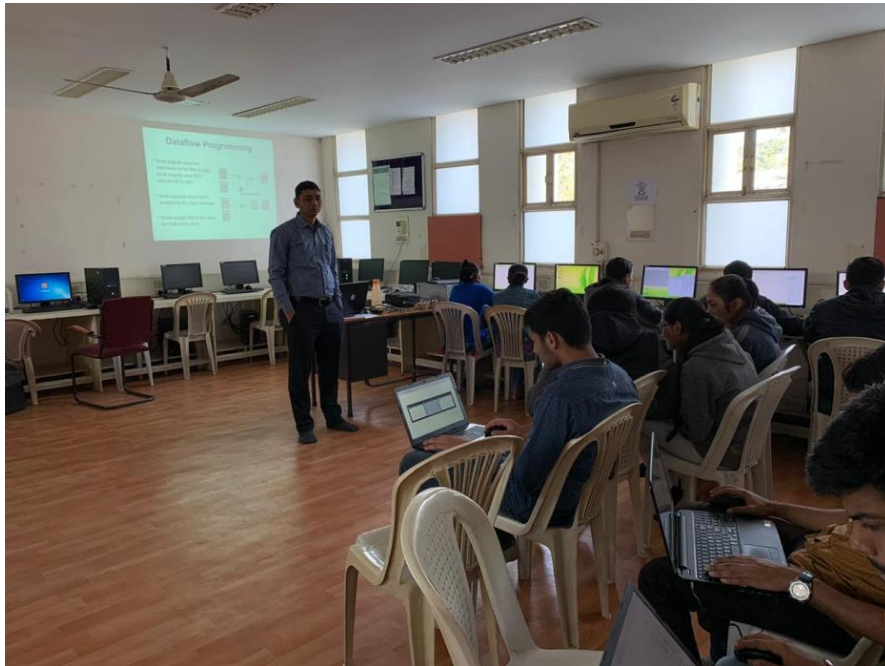
### **ABOUT THE SPEAKER: Prof. Samir Trapasiya**

Prof. Samir Trapasiya is currently pursuing his PhD from Gujarat Technological University, Ahmedabad. His specializations include Wireless Communication and Wireless Sensor Network. He has more than 14 years of teaching experience.



## ABOUT THE EVENT

The workshop started with an introduction to LabVIEW and some basic commands related to it. Then, the students were taught about various operations in LabVIEW. The two major types of environments in LabVIEW i.e. Front Panel and Back Panel were also explained to the students. Further, Dr Jain elucidated on the various methods of plotting that can be utilized in LabVIEW.



The session was continued by Prof. Samir Trapasiya. He covered the use of conditional statements and loops. Commands for loops such as *while loop* and other *logical operations* were taught and problems regarding the same were analyzed.

LabVIEW provides predefined models for ready use and the concept and application of these was discussed by Prof. Trapasiya. The participants were then given a feedback form to fill in order to reflect their views about the workshop.

Towards the end of the session, Dr Jain gave a brief idea about how **industrial problems are solved** using LabVIEW by citing real life problems where the software is utilized. Prof. Samir Trapasiya concluded the session by giving some useful key points and shortcuts regarding LabVIEW.