

**A Report**

**On**

**Webinar on “Automation Studio” by Janatics India Private Limited**

**Date : 26<sup>th</sup> and 27<sup>th</sup> May, 2021 ; Time : 10:00 – 11:30 am**

**No. of attendees from MSIT : 45**

A two days webinar has been organized by ECE Deptt. on “Automation Studio” for the faculty and students of 3<sup>rd</sup> and 4<sup>th</sup> year of ECE branch on 26<sup>th</sup> May, 2021 and 27<sup>th</sup> May, 2021 from 10:00 am to 11:30 am through WebX. The webinar on first day was focused on “Electro-Pneumatics” and on second day was on “PLC Programming”. Dr. Sudesh Pahal in coordination with Janatics India and Famic Technologies conducted the program. Five faculty members along with 40 students registered for the session. The objective of webinar was to design 2D and 3D animated circuits with Mitsubishi Electric components and validate those theories with simulation. The Electro-Pneumatics session was focussed on following topics:

- New Pneumatic Components: Compressors, Vacuum generators,
- Vacuum cups, Normally closed flow sensors, etc.
- Pneumatic circuit design and analysis (shared by Janatics)
- Electrical control
- PLC control with custom library.
- PLC Example: MELSEC-F Series from Mitsubishi Electric catalogues
- Pneumatic catalogue: Janatics Catalogue

The PLC programming was focussed on following topics:

- Mitsubishi Electric PLC: MELSEC-Q Series and MELSEC-F Series
- PLC Custom Library
- PLC Ladder programming
- Simulation validation
- OPC: hardware-software co-simulation
- Various applications (Parking lot, traffic light, etc.)

It was very useful for Faculty members and Research students interested in up-skilling and Engineering (UG/PG) graduates aspiring to build a career in automation industry.

At the end, the students also participated during the QA session and they got more insight about this field.

**Dr. Sudesh Pahal**

**Coordinator**