



Report on workshop
“Robotics and its programming”
Duration: 20-24 June 2022

Organized by
Department of Mechanical Engineering

COORDINATOR

Mr. C. Sivakumar,
Assistant Professor,
Department of Mechanical Engineering,
BSA Crescent Institute of Science and
Technology,
Chennai - 600061

SPEAKER

Mr. Naveen Kumar
Robotics Engineer
Prag Robotics Pvt Ltd,
Chennai - 600037

REPORT ON WORKSHOP

A five days workshop on “Industrial robotics” was organized by the Department of Mechanical Engineering along with Prag Robotics Pvt Ltd. The course was handled by Mr. K. Naveen, Robotics Engineer at Prag Robotics Pvt Ltd. And Mr. D. Pragadish, Robotics Engineer at Prag Robotics Pvt Ltd.

Around 12 faculty members from the Department of Mechanical Engineering participated in the workshop. The faculty members were introduced to different types of robots, and conventions that are followed in robot industries. The workshop concentrated on two main aspects, first on the real robot with a teach pendant for manipulation and programming and the second one was on the ABB robot studio for virtual control and offline programming.

Robot Studio is built on the ABB Virtual Controller, an exact copy of the real software that runs the robots in production. This allows very realistic simulations to be performed, using real robot programs and configuration files identical to those used on the shop floor. This gives the programmer the confidence to handle the robots.

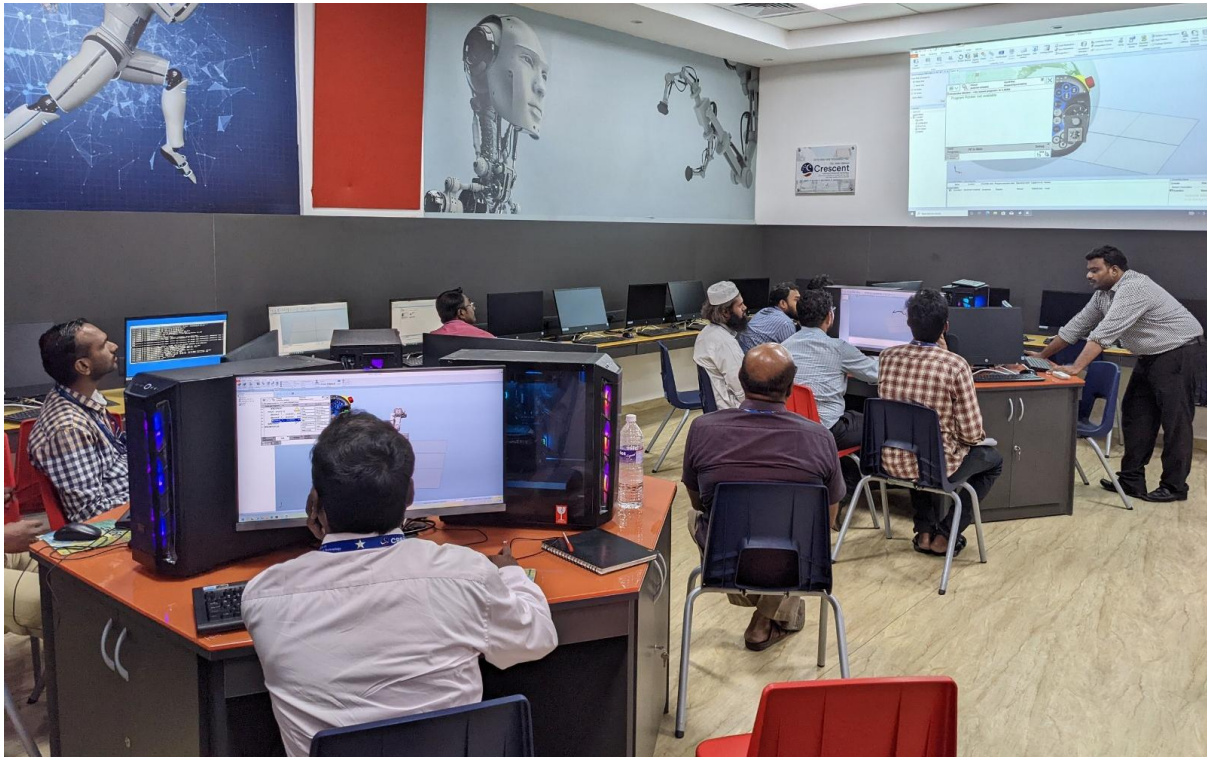
The five days workshop covered the following topics:

- Introduction to Industrial Robots & its applications
- Program robot offline with simulation software ABB Robot Studio
- ABB Robot Jogging using virtual and actual teach pendant
- Basic Robot Studio navigation
- ABB Robot Programming using virtual and actual teach pendant
- Implement simulation on the actual robot using a teach pendant

Programming features and tools

- Creating a station
- Creating a system
- Creating the geometries and mechanical unit
- Creating Tools, Work Objects, Targets and Paths
- Programming offline and simulation

GLIMPSES OF WORKSHOP





B.S. Abdur Rahman

Crescent
Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956
GST Road, Vandalur, Chennai 600 048

SCHOOL OF MECHANICAL SCIENCES





ATTENDEES

S.No	Name	Designation
1	Dr. A. Arockia Julias	Assistant Professor (Sr.Gr.)
2	Dr. S. Jeavudeen	Assistant Professor (Sr.Gr.)
3	Mr. D. Pradeepkumar	Assistant Professor
4	Mr. M. Balasrinivasan	Assistant Professor
5	Mr. C. Sivakumar	Assistant Professor
6	Dr. K. Sathick Basha	Assistant Professor
7	Mr. S. Loganathan	Assistant Professor
8	Mr. Syed Shahul Hameed	Assistant Professor
9	Dr. B. Surya Rajan	Assistant Professor
10	Mr. G. Rajesh	Assistant Professor
11	Dr. M. Pervaz Ahmed	Assistant Professor
12	Dr. K. Mohamed Bak	Assistant Professor