



Workshop on Industrial Robotics

October 31 – November 04, 2017

Certificate of Training

This is to certify that **Mr./ Ms. *Dr. Kunal Datta*** has participated in this workshop organized by **Deen Dayal Upadhyay Kaushal Kendra (DDUKK), Dr. Babasaheb Ambedkar Marathwada University, Aurangabad** & **Vardhaman Institute of Robotics & Automation, Aurangabad**. His/her training in the workshop complies with **Industrial Robot Programming Level 1** & he/she has been provided with **12 hrs of theory session & 28 hrs of hands on session on Kuka KRC4 Controller**.

The training has been provided by **Vardhaman Institute of Robotics & Automation, Aurangabad**.

Topics covered -

- Introduction to parts of Industrial articulated robot
- Safety introduction on industrial robotics
- Mode of Operation of Robot and Types of Break Reaction
- Jogging of Robot
- Mastering/ Zeroing/ Referencing
- Knowledge & Usage of Co-ordinate System
- Method of Tool Calibration and Base Calibration
- Creating Program & Motion Programming
- Introduction to Inputs, Outputs & Logic Commands
- Backup and Restoring Robot Program

Director
VIRA Robotics

Director
DDUKK