

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University)

SHORT TERM TRAINING PROGRAM ON ABB IRB 1520 INDUSTRIAL ROBOT

Organized by
Department of Mechatronics Engineering
School of Mechanical Engineering
Date: 19 -02-2020 to 13-03-2020

This training mainly focuses on providing the students the fundamentals, terminologies and basic operations of the industrial robots for the students and research scholars to meet the ever changing demands on industrial needs for Robotics.

COURSE HIGHLIGHTS

- 30 Hours of Hands on Experience with ABB IRB1520 Robot
- Training Sessions on Program Industrial Robot
- Training sessions on robot kinematics using MATLAB Software
- Certificate will be Provided in association with Professional Bodies



Convener
Dr. S. Prakash
Dean, School of Mechanical Engineering

For Registration Contact
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Course Coordinator
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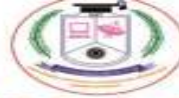
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Accredited "A" Grade by NAAC | 12B Status by UGC | Approved by AICTE

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COURSE MODULES FOR TRAINING PROGRAM ON ABB IRB 1520 INDUSTRIAL ROBOT

MODULE – I	• Introduction to Robotics • Introduction to Industry 4.0 • Need of Robots in Manufacturing • Robot Configuration , Work Volume & Pay load • Robot Kinematics • Robot Grippers • Robot Gripper Design • Robot Actuators • Robot Sensors	(8 hours)
MODULE – II	• Robot Machine Vision System • Robot Control System • Flexible Manufacturing Systems • Robot work cell • Industrial Application for Robots • Robots in Medical Applications • Robots in Hazardous Environment • Robot Safety and Maintenance	(12 hours)
MODULE – III	• Introduction to Robot Programming • Teach Pendant / Flex Pendant • Robot Coordinates , TCP , Interfacing with Flex Pendant • Basic Operations using Flex Pendant • Jogging Mode – Practical – I • Motion Commands – Practical – II • Basic Pick and Place Operation – Practical – III • Programming for Palletizing – Practical - IV	(10 hours)



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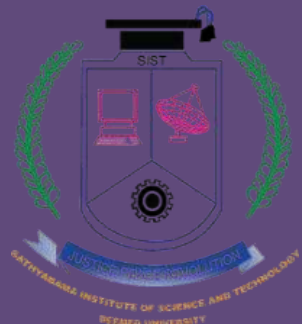
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LIST OF PARTICIPANTS FOR TRAINING PROGRAM ON ABB IRB 1520 INDUSTRIAL ROBOT

- 1 Dr.B.Kanimozhi
- 2 Dr.S.Sivasaravanan
- 3 Dr.m.Sangeetha
- 4 Dr.J.Lily mercy
- 5 Mr.J.Senthilkumar
- 6 Mr.V.Jayaprakash
- 7 Mr.P.Gunasekar
- 8 Dr.S.Ganesan
- 9 Mr.S.Lakshmi shankar
- 10 Mr.M.Purusothaman
- 11 Mr.S.Venkatesan
- 12 Mr.V.Sriram



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CERTIFICATE OF COMPLETION presented to

Mr.S.Venkatesan

Student of School of Mechanical Engineering has successfully completed the "TRAINING PROGRAM on ROBOT and PROGRAMMING" on ABB IRB1520 Industrial Robot from Date: 19-02-2020 to 13-03-2020 organized by Department of Mechatronics Engineering, School of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai.

Mr.J.R.DEEPAK

ASSISTANT PROFESSOR

DEPARTMENT OF MECHATRONICS ENGINEERING
SCHOOL OF MECHANICAL ENGINEERING

DR.R.B.DURAIRAJ

Assistant Professor,

Center of Robotics & Automation
School of Mechanical Engineering

Dr.S.PRAKASH

Dean

School of mechanical engineering