

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: 05 -07-2021 to 30-07-2021

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
Dr. J. R. Deepak
Associate Professor
Department of Mechatronics Engineering
Mobile: 9047382398

Course Coordinator
Dr. R. B. Durairaj M.Tech (Robotics), PhD.,
Assistant Professor,
Center of Robotics & Automation
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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)

HANDS ON TRAINING PROGRAM ON ABB IRB 1520 INDUSTRIAL ROBOT



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

39090001	ANIRUDH R.P.
39090002	ARIJUN V.S.
39090003	ARUN K.
39090004	ASVIN KUMAR T.
39090005	B.SHANMUKH VARUN TEJA
39090006	S.BUVANESWARAN
39090007	CHRIS EDWIN J.
39090008	DEEPAK JEFFERSON.
39090009	DIVAKAR
39090010	P. GUMANAN
39090011	G.SIDDARTHA
39090012	JENIS TONY R.
39090013	R. JORAPH NICHOLAS
39090014	JOSEPH THAMBI KOPPADA
39090015	S.KARTHIKEYAN
39090016	K.R.KATHIRAVAN
39090017	R. KAUSHIK
39090018	KISHAAN B.S.
39090019	S.P.KISHORE
39090020	S.KRISHNA PRASATH
39090021	KRISHNA SUBBIAH CHARYULU V.
39090022	KRISHNAKANTH M.
39090023	MELVIN ANDERSON
39090024	MOHAMED RASHIK M.
39090025	MOHANA PRAKASH R.
39090026	MOKESHWARAN V.
39090027	MONISHWARAN K.
39090028	MUGHILAN R.B.
39090029	N.YASEER
39090030	NARENE RICHARD J.
39090031	NAVIN I.
39090032	NEVYA K. ABRAHAM
39090033	NIRANJAN PRABAKARAN
39090034	NISHANTH
39090035	NITHISHKAR
39090036	PRABHU RAJA S.
39090037	PRASANNA KUMAR M.
39090038	PRAVEEN KANNA U.K.
39090039	PUGAZH SIVAKUMAR



SATHYABAMA

INSTITUTE OF SCIENCE & TECHNOLOGY

(DEEMED TO BE UNIVERSITY)
Accredited With Grade "A" by NAAC

CERTIFICATE OF COMPLETION presented to



PUGAZH SIVAKUMAR

Student of School of Mechanical Engineering has successfully completed the "TRAINING PROGRAM on ROBOT and PROGRAMMING" on ABB IRB1520 Industrial Robot from 05 -07-2021 to 30-07-2021 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

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
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FOUR WEEKS SHORT TERM SKILL DEVELOPMENT COURSE ON AUTOCAD DESIGN

Organized by
School of Mechanical Engineering

Date: 31-01-2022 to 25-02-2022



For Registration Contact :
Dr. MSangeetha
Assistant Professor
Department of Mechatronics Engineering

Course Coordinator
Dr. J. R. Deepak
Assistant Professor
Department of Mechatronics Engineering
Mobile No: 9047382398

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

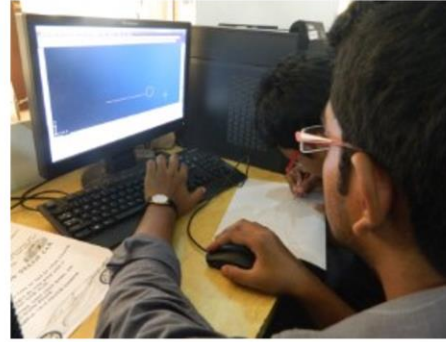
SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
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FOUR WEEKS SHORT TERM SKILL DEVELOPMENT COURSE ON AUTOCAD DESIGN
Organized by

School of Mechanical Engineering
Date: 31-01-2022 to 25-02-2022

COURSE PLAN

Week – 1 (14 hours)	Week – 2 (12 hours)	Week – 3 (10 hours)	Week – 4 (10 hours)
Introduction to AutoCAD Software	Modify commands Move, Rotate, Scale, copy, Mirror, erase, trim, extend	Isometric views Isometric top, left, right Isometric diagrams	Use the AutoCAD visual reference commands Drawing Area Setup Visual reference
Control the drawing change views function keys AutoCAD basics	Annotate Dimension Style Manager Linear, Aligned, Radius Angular, Arc length	Isometric drawings Isometric diagrams	Interactive Input method grid snap mode
Cartesian coordinate system Absolute coordinate system Relative coordinate system	Text command Layers blocks Single line text Multiline text Layer properties Insert blocks	2D Fundamentals Drawing units Sheet settings	Practice Sessions (3 Hours)
Draw commands Line command Polyline command Rectangle command	Parametric Geometric, Dimensional Manage	Create and Save Auto CAD Save files Export plot	Practice Sessions (3 Hours)
Practice Sessions (4 Hours)	Practice Sessions (4 Hours)	Practice Sessions (4 Hours)	Final Exam (3 Hours)

- Four weeks short term skill development course on AutoCAD design for School of Mechanical Engineering students Organized by School of Mechanical Engineering, Sathyabama Institute of Science and Technology from 31 -01-2022 to 25-02-2022.
- 30 Under Graduate Students of Mechatronics Engineering students have successfully completed the AutoCAD short term course.



LIST OF PARTICIPANTS FOR FOUR WEEKS SHORT TERM SKILL DEVELOPMENT COURSE ON AUTOCAD DESIGN

**Organized by
School of Mechanical Engineering
Date: 31-01-2022 to 25-02-2022**

Sl.No	Register Number	Name of the Student
1	39090002	ARJUN V.S.
2	39090006	S.BUVANESWARAN
3	39090012	JENIS TONY R.
4	39090018	KISHAAN B.S.
5	39090020	S.KRISHNA PRASATH
6	39090026	MOKESHWARAN V.
7	39090027	MONISHWARAN K.
8	39090031	NAVIN I.
9	39090035	NITHISHKAR
10	39090051	SNEKANTH B.
11	39090060	D.VIGNESH
12	39090701	PONMUTHU P.
13	39090702	DEEPAK SAI C.M.
14	39090703	LOKESH M.
15	39090704	BHARGAVA RAO P.
16	39090705	PRASANTH S.
17	39090706	S.SABARI GANESH
18	39090901	N KIRUBAKARAN
19	39090004	ASVIN KUMAR T.
20	39090007	CHRIS EDWIN J.
21	39090008	DEEPAK JEFFERSON.
22	39090009	DIVAKAR
23	39090016	K.R.KATHIRAVAN
24	39090022	KRISHNAKANTH M.
25	39090024	MOHAMED RASHIK M.
26	39090032	NEVYA K. ABRAHAM
27	39090037	PRASANNA KUMAR M.
28	39090038	PRAVEEN KANNA U.K.
29	39090030	NARENE RICHARD J.
30	39090033	NIRANJAN PRABAKARAN



**SATHYABAMA INSTITUTE OF SCIENCE & TECHNOLOGY
CHENNAI**

CERTIFICATE OF PARTICIPATION



NARENE RICHARD J.

has successfully completed the "SHORT TERM SKILL DEVELOPMENT
COURSE ON AUTOCAD DESIGN", organized by Department of Mechatronics
Engineering SCHOOL OF MECHANICAL ENGINEERING, SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI.

DATE: 31-01-2022 to 25-02-2022


Dr. J. R. Deepak
 Course Coordinator


Dr. S. Prakash
 Dean