



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

Accredited A++ Grade by NAAC | 12B Status by UGC | Approved by AICTE

www.sathyabama.ac.in

School of Mechanical Engineering Department of Mechatronics

1.3.3 List of Value-Added Courses conducted - 2022-2023

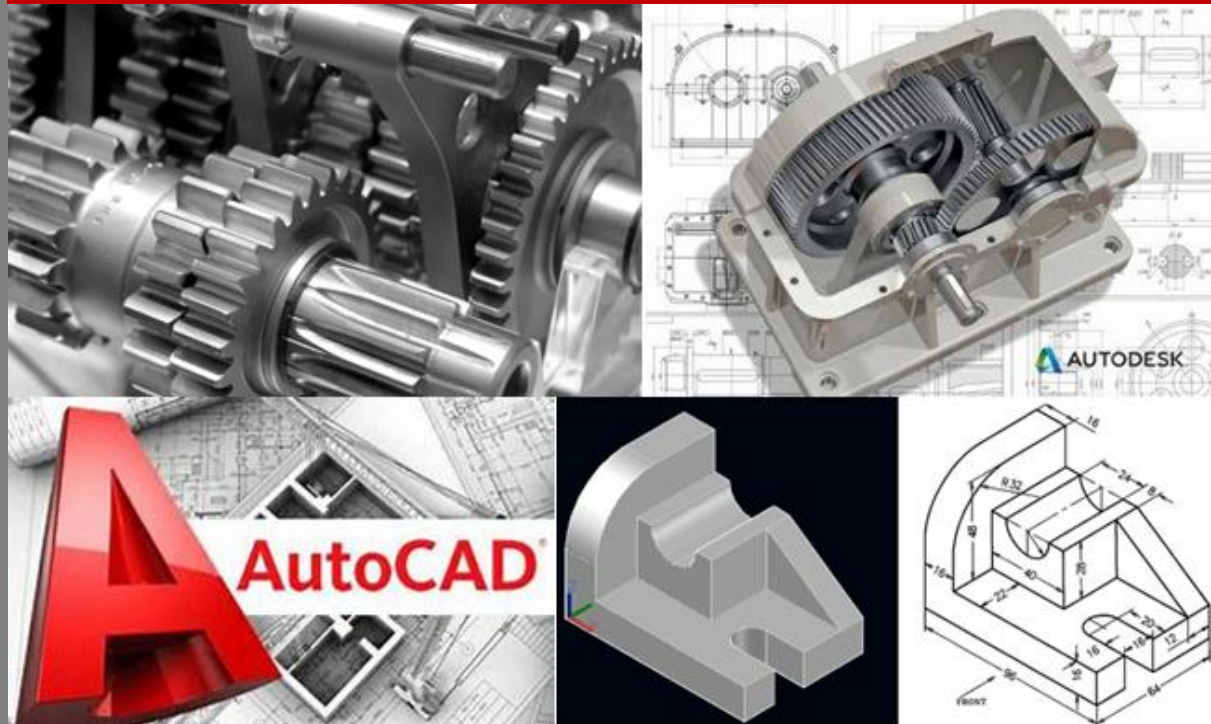
Sl. No.	Name of the course	Event dates	No. Of Students Enrolled	No. Of Students Completed	Page No.
1	Short term skill development course on AutoCAD design	01.08.2022 to 26.08.2022	39	39	2
2	Short Term Training Program on ABB IRB 1520 Industrial Robot	04.07.2022 to 29.07.2022	45	45	9

Dr. S. Prakash

HOD - Mechatronics

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
(Deemed to be University)
SHORT TERM SKILL DEVELOPMENT COURSE ON AUTOCAD DESIGN

Organized by
School of Mechanical Engineering
Department of Mechatronics
Venue: CPDD Lab
Date: 01 - 08 - 2022 to 26 - 08 - 2022



For Registration Contact :
Dr. M. Sangeetha
Associate Professor
Mechatronics

Course Coordinator
Dr. J. R. Deepak
Associate Professor
Mechatronics
Mobile No: 9047382398

Convener
Dr. S. Prakash
HOD - Mechatronics

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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 Poly line command Rectangle command	Parametric Geometric, Dimensional Manage	Create and Save Auto CAD Save files Export PDF plot	Practice Sessions (3 Hours)
Practice Sessions (3 Hours)	Practice Sessions (3 Hours)	Practice Sessions (3 Hours)	Final Exam (3 Hours)

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COURSE OBJECTIVES

- To gain practical experience in engineering modeling through computer aided systems.
- To understand the functioning of 2D drafting and 3D modeling software systems.

COURSE OUTCOMES On completion of the course, student will be able to

- CO1 - Understand the fundamentals of computer aided design.
- CO2 - Implement their knowledge in designing a model.
- CO3 - Understand the various limits and tolerances.
- CO4 - Understand various dimensioning styles.
- CO5 - Implement their knowledge to model various 2D and 3D models.
- CO6 - Understand various commands and keyboard shortcuts for faster modeling skills.



- Four weeks short term skill development course on AutoCAD design for School of Mechanical Engineering students Organized by Department of Mechatronics, School of Mechanical Engineering, Sathyabama Institute of Science and Technology from 01 -08-2022 to 26-08-2022.
- **39 Under Graduate Students** of Mechatronics students have successfully completed the AutoCAD short term course.



Dr. J. R. Deepak
Course Coordinator

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Department of Mechatronics
Date: 01 - 08 - 2022 to 26 - 08 - 2022, Venue: CPDD Lab

LIST OF PARTICIPANTS

SL. NO.	REG. NO.	NAME
1	42090001	ADHITHAN N
2	42090002	AFNAN MUHAMMED HUDA
3	42090004	ANANTHI V
4	42090006	ASWATH M
5	42090007	ASWIN RAJA P
6	42090008	BHARATH KUMAR T
7	42090009	DEEPIKA S
8	42090010	DURAIVEL A
9	42090011	GOKUL KUMAR D
10	42090012	HARISH K
11	42090013	HELWIN A
12	42090014	ILANCHEZHIAN M
13	42090015	JITEN P
14	42090016	KARTHIK M
15	42090017	MOHAMMED AFZEL.G
16	42090018	NANDHA KUMAR P
17	42090019	NAVEEN KUMAR U
18	42090020	PANDRANKI SATYAVATHI
19	42090021	POTNURI RAKESH BABU
20	42090022	RAHEL GRAZEN S B

SL. NO.	REG. NO.	NAME
21	42090023	SALONI
22	42090024	SAMSON PRABAKARANB I
23	42090025	SIDDIHKSRI R
24	42090026	SUBASRI M
25	42090027	SWAMINATHAN V
26	42090028	SWASTHIKA A
27	42090029	VEERABATHIRAN C
28	42090030	VISHAL EMMANUEL KANNIRAJ V
29	42090031	NANDHA N
30	42090032	EBINESH I
31	42090033	AJAY BALAJI
32	42090034	MITHUL GIRISHWARA K
33	42090035	ARUN V G
34	42090036	ANANTHU MS S
35	42090037	AADHAVAN S
36	42090038	SAMYNATHAN L
37	42090039	JEBA SUDHAN MARIO E
38	42090040	HARI PRAKASH K J
39	42090041	MUSHARAF RAHMAAN H


Dr. J. R. Deepak
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Date: 01 - 08 - 2022 to 26 - 08 - 2022, Venue: CPDD Lab
Attendance Sheet

			01 - 08 - 2022 TO 26 - 08 - 2022																		
SL. NO.	REG. NO.	NAME	1	2	3	4	5	8	9	10	11	12	16	17	18	19	22	23	24	25	26
1	42090001	ADHITHAN N	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	P	P	P
2	42090002	AFNAN MUHAMMED HUDA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3	42090004	ANANTHI V	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4	42090006	ASWATH M	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5	42090007	ASWIN RAJA P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6	42090008	BHARATH KUMAR T	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7	42090009	DEEPIKA S	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	P	P	P
8	42090010	DURAIVEL A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9	42090011	GOKUL KUMAR D	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10	42090012	HARISH K	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	42090013	HELWIN A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	42090014	ILANCHEZHIAN M	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
13	42090015	JITEN P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
14	42090016	KARTHIK M	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
15	42090017	MOHAMMED AFZEL G	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
16	42090018	NANDHA KUMAR P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P
17	42090019	NAVEEN KUMAR U	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
18	42090020	PANDRANKI SATYAVATHI	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P
19	42090021	POTNURI RAKESH BABU	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	P	P	P
20	42090022	RAHEL GRAZEN S B	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	P	P	P
21	42090023	SALONI	P	P	P	P	P	A	A	P	P	A	A	P	P	P	P	P	P	P	P
22	42090024	SAMSON PRABAKARANB I	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P
23	42090025	SIDDHIKSRI R	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	P	P	P
24	42090026	SUBASRI M	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	P	P	P
25	42090027	SWAMINATHAN V	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
26	42090028	SWASTHIKA A	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P
27	42090029	VEERABATHIRAN C	P	P	P	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P
28	42090030	VISHAL EMMANUEL KANNIRAJ V	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
29	42090031	NANDHA N	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
30	42090032	EBINESH I	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P
31	42090033	AJAY BALAJI	P	P	P	P	P	A	P	P	P	P	P	P	A	A	A	A	P	P	P
32	42090034	MITHUL GIRISHWARA K	P	P	P	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P
33	42090035	ARUN V G	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
34	42090036	ANANTHU MS S	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
35	42090037	AADHAVAN S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
36	42090038	SAMYNATHAN L	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
37	42090039	JEBA SUDHAN MARIO E	P	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
38	42090040	HARI PRAKASH K J	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P
39	42090041	MUSHARAF RAHMAAN H	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P


Dr. J. R. Deepak
Course Coordinator


Dr. S. Prakash
HOD - Mechatronics

SATHYABAMA INSTITUTE OF SCIENCE & TECHNOLOGY CHENNAI



CERTIFICATE OF PARTICIPATION



DURAIVEL .A

has successfully completed the “Short Term Skill Development Course on AutoCAD Design”, organized by Department of Mechatronics, School of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai.

DATE: 01 - 08 - 2022 to 26 - 08 - 2022

A handwritten signature in blue ink, appearing to read 'Dr. J. R. Deepak'.

Dr. J. R. Deepak
Course Coordinator

A handwritten signature in blue ink, appearing to read 'S. Prakash'.

Dr. S. Prakash
HOD - Mechatronics

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

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SHORT TERM TRAINING PROGRAM ON ABB IRB 1520 INDUSTRIAL ROBOT

Organized by

School of Mechanical Engineering

Department of Mechatronics

Date: 04 - 07 - 2022 to 29 - 07 - 2022

Venue: Center of Robotics & Automation



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



For Registration Contact:

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Department of Mechatronics

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Mobile: 9047382398

Course Coordinator

Dr. R. B .Durairaj

Assistant Professor

Department of Mechatronics

Convener

Dr. S. Prakash

Head - Mechatronics

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
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SHORT TERM TRAINING PROGRAM ON ABB IRB 1520 INDUSTRIAL ROBOT
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Department of Mechatronics
Date: 04 - 07 - 2022 to 29 - 07 - 2022
Venue: Center of Robotics & Automation

COURSE MODULE

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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Date: 04 - 07 - 2022 to 29 - 07 - 2022
Venue: Center of Robotics & Automation

COURSE OBJECTIVES

- To introduce the robotic concepts, parts and various types of robots.
- To make the students familiar with sensors, drive systems for robot and their applications in robots, programming of robots.
- To understand the various applications of robots, justification, implementation and safety of robot.
- To introduce different types of robotics and demonstrate them to identify different parts and Components.
- To write programming for simple operations like pick and place, rotomix etc.

COURSE OUTCOMES

On completion of the course, student will be able

CO1 - Provide sufficient knowledge of industrial robot.

CO2 - Understand basic knowledge of robot programming.

CO3 - Understand the concepts of work volume, configuration of industrial robot.

CO4 - Introduce the position representation on work space.

CO5 - Impart knowledge on robot programming language and to educate how to program a robot



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Date: 04 - 07 - 2022 to 29 - 07 - 2022
Venue: Center of Robotics & Automation



Dr. R. B. Durairaj
Course Coordinator

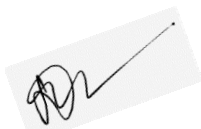
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SHORT TERM TRAINING PROGRAM ON ABB IRB 1520 INDUSTRIAL ROBOT

LIST OF PARTICIPANTS

SL. NO.	REG. NO.	NAME
1	40090001	ARAVIND KUMAR. S.S
2	40090002	ASHWIN. C
3	40090003	ASHWIN. S
4	40090004	BHAGVATH AGRAWAL. R
5	40090005	BHARATH KUMAR. S
6	40090006	DANIEL CEDRICK MERPHEY
7	40090007	DEVA RAGOTHAMAN. Y.A
8	40090008	E VENKATA SETHU VARDHAN
9	40090009	HANISH.D
10	40090010	HARISH. K
11	40090011	HARISH. P.S
12	40090012	HASAN AHMED
13	40090013	JENITH RAJA. K
14	40090014	KEERTHI VASAN
15	40090015	KEVIN RAJADURAI. E
16	40090016	KHARAN.V
17	40090017	KIRAN. R
18	40090018	KRITHIKA. R
19	40090019	MOHAMED NOOHU S. M.B
20	40090020	MURALI V

SL. NO.	REG. NO.	NAME
21	40090021	NARENDHIRAN. M
22	40090022	NITESWAR.D
23	40090023	PRATHIK. V
24	40090024	RISWANTH S
25	40090025	ROHIT KUMAR
26	40090026	SAMBUVARAYAN. D.S
27	40090027	SANJAY. R
28	40090028	SARATH
29	40090029	SATHYA PRAKASH. N
30	40090030	SHAFI AKEEL. M
31	40090031	SUDESH. V
32	40090032	TAMIL MANI. A
33	40090033	TAUSEEF ALI URFANI
34	40090034	TEJA SHIVA SAI KUMAR PEDDINTI
35	40090035	THOMAS MERVIN.M
36	40090036	VINAY. V
37	40090037	VISHWESHWAR
38	40090038	YOHAN MATHEW PHILIPS
39	40090701	ALLEN MATHEW
40	40090702	S.R.ARAVIND
41	40090703	CHIDAMBARESH.N
42	40090704	BADHRINATH.B
43	40090706	G.YOGESH
44	40090707	AANTO SALOM J
45	40090708	LINGESHWARA MARUTHI. R. S



Dr.R.B.Durairaj
Course Coordinator



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SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
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SHORT TERM TRAINING PROGRAM ON ABB IRB 1520 INDUSTRIAL ROBOT
ATTENDANCE SHEET

			04 - 07 - 2022 TO 29 - 07 - 2022																			
SL. NO.	REG. NO.	NAME	4	5	6	7	8	12	13	14	15	18	19	20	21	22	25	26	27	28	29	
1	40090001	ARAVIND KUMAR. S.S	A	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	P	P	P	
2	40090002	ASHWIN. C	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
3	40090003	ASHWIN. S	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	
4	40090004	BHAGVATH AGRAWAL. R	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
5	40090005	BHARATH KUMAR. S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
6	40090006	DANIEL CEDRICK MERPHEY	P	P	P	A	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	
7	40090007	DEVA RAGOTHAMAN. Y.A	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	P	P	P	
8	40090008	E VENKATA SETHU VARDHAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
9	40090009	HANISH.D	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
10	40090010	HARISH. K	P	P	A	A	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	
11	40090011	HARISH. P.S	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
12	40090012	HASAN AHMED	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
13	40090013	JENITH RAJA. K	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
14	40090014	KEERTHI VASAN	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	
15	40090015	KEVIN RAJADURAI. E	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
16	40090016	KHARAN.V	A	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	
17	40090017	KIRAN. R	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
18	40090018	KRITHIKA. R	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	
19	40090019	MOHAMED NOOHU S. M.B	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	
20	40090020	MURALI V	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	
21	40090021	NARENDHIRAN. M	P	P	P	P	P	A	A	P	P	A	A	P	P	P	P	P	P	P	P	
22	40090022	NITESWAR.D	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	
23	40090023	PRATHIK. V	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	
24	40090024	RISWANTH S	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	
25	40090025	ROHIT KUMAR	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	
26	40090026	SAMBUVARAYAN. D.S	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	
27	40090027	SANJAY. R	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	
28	40090028	SARATH	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	
29	40090029	SATHYA PRAKASH. N	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	
30	40090030	SHAFI AKEEL. M	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	
31	40090031	SUDESH. V	P	P	P	P	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P	
32	40090032	TAMIL MANI. A	P	P	P	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	
33	40090033	TAUSEEF ALI URFANI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
34	40090034	TEJA SHIVA SAI KUMAR PEDDINTI	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
35	40090035	THOMAS MERVIN.M	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
36	40090036	VINAY. V	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
37	40090037	VISHWESHWAR	P	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
38	40090038	YOHAN MATHEW PHILIPS	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	
39	40090701	ALLEN MATHEW	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	
40	40090702	S.R.ARAVIND	P	P	P	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	
41	40090703	CHIDAMBARESH.N	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
42	40090704	BADHRINATH.B	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
43	40090706	G.YOGESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
44	40090707	AANTO SALOM J	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
45	40090708	LINGESHWARA MARUTHI. R. S	P	P	P	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	

Dr.R.B.Durairaj
Course Coordinator

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SATHYABAMA

INSTITUTE OF SCIENCE & TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

Accredited With Grade "A" by NAAC

CERTIFICATE OF COMPLETION

presented to



JENITH RAJA K

Student of School of Mechanical Engineering who has successfully completed the "Short Term Training Program on ABB IRB 1520 Industrial Robot" from 04 - 07 - 2022 to 29 - 07 - 2022 organized by Department of Mechatronics, Center of Robotics & Automation, School of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai.

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