



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Sindalagundu post, Dindigul-624 002, Tamilnadu. Ph: 0451-2448800

(Approved by AICTE, Affiliated to Anna University, Chennai Accredited by NAAC)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Technology Training Programme on Industrial Robotics



2022-23 (Even Semester) III & IV Year EEE

(06.03.2023 to 11.03.2023)

Trained by

Axis Global Automation, Coimbatore

From

Dr.G.MohanBabu,
Professor & Head,
Department of Electrical and Electronics Engineering,
SSM Institute of Engineering and Technology,
Dindigul-02

To

The Principal,
SSM Institute of Engineering and Technology,
Dindigul-02

Respected Sir,

Sub: Requesting Approval of conducting **Technological Teaching** for III and IV Year EEE Students-Reg

The Department of EEE has planned to conduct Technological Teaching for Third and Final year Students on "Industrial Robotics" which is scheduled in March 2023. The quotation details, syllabus and Training Schedule are attached with this letter. Kindly do the needful sir.

Technological Training	Name of the Company	Total No.of Students	No. of Hours	Duration	Amount	Coordinator/Faculty in Charges
Industrial Robotics	Axis Global Automation, Coimbatore	64	40	06.03.23 to 11.03.23	Rs.1,28,000	D.Manoj,A.P/EEE P.Siva Subramanian,A.P/EEE G.Sathish Kumar,A.P/EEE

Resource Person Details:

- 1. Er.S.Sudhakar,Sr.Business Development Engineer
- 2. Er.R.Nagarjun,Application Engineer
- 3. Er.S.Loganathan ,Application Engineer

Thanking you.

Yours faithfully


(Dr.G.MohanBabu)


To
Dr. G. Mohan Babu



SSM Institute of Engineering and technology

Dindigul - Palani Highway, Dindigul - 624002

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai, Accredited by NAAC)

Department of Electrical and Electronics Engineering

organizes

six days Technology Training on

" Industrial Robotics "

For III and IV year students of EEE

from 06.03.2023 to 11.03.2023

Trained by

Axis Global Automation, Coimbatore

Co-ordinators

Mr.D.Manoj,AP/EEE
Mr .P.Siva subramanian,AP/EEE

HoD/EEE

Dr.G.Mohanbabu

Principal

Dr.D.Senthil kumaran

All are invited



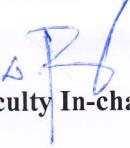
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Dindigul-Palani Highway, Dindigul-624002

CIRCULAR

25/02/2023

This is to inform that six days training program on **INDUSTRIAL ROBOTICS** is going to conduct for IV & III year EEE students from 06.03.2023 to 11.03.2023 by Axis global automation, Coimbatore. All the students are informed to attend and enrich your knowledge.


Faculty In-charge


HOD/EEE

OFFER No: AGIIT/VAP/CBE/22-23/115 **OFFER DATE:22.02.2023**

CUSTOMER : SSM Institute of Engineering and Technology

KIND ATTEN :Mr.MANOJ

TRAINING PROGRAM: VALUE ADDED PROGRAM (VAP)

CONTENTS:

- 1. INTRODUCTION**
RESEARCH & DEVELOPMENT TEAM
- 2. TRAINING METHODOLOGY**
- 3. TRAINING HIGHLIGHTS**
- 4. TRAINING BENEFITS**
- 5. SPECIFIC AREAS OF EXCELLENCE**
- 6. OUR GLOBAL PRESENCE**
- 7. OUR TRAINING BRANDS**
- 8. OUR CLIENTS**
- 9. TERMS & CONDITIONS**

1. INTRODUCTION

Axis Global Automation Group of Companies is one of India's leading Industrial Automation and Robotics Engineering Solution provider. The company provides complete turnkey solutions for the automation needs of all industries. The company has a dedicated manufacturing unit for control panels. The company is the industry channel partner for Yaskawa Motoman in India. Key industries catered to include automotive industries, manufacturing and process industries, food & beverage industries, oil & gas, chemical, biotechnology and pharmaceutical industries.

Our Services include:

- Engineering & Consulting in Automation – Controls – Robotics
- Installation & Commissioning Services
- Maintenance & Field Services
- New Product Development
- Control Panel Manufacturing
- Special Purpose Machines (Laser Cutting Machines etc.)
- Machine Tending Services (Automated and Robotics Systems)
- Retrofit Projects

Axis Global Automation today is a multi-faceted business group with interests in two business domains including:

1. Industrial Automation & Robotics System Integration
2. New Product Development (Special Purpose Machines, Customized Robotic Solutions, etc.)
3. Technical Training

Axis Global Institute of Industrial Training (AGIIT) is the leading Industrial Automation

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www.agatrg.com

& Robotics technical training campus in India. We offer real-time, hands-on industry oriented training in technologies such as PLC, SCADA, DCS, HMI, VFD, Servo as well as Robotics. We are the exclusive training partner for Yaskawa Motoman Japan and also have strategic training partnerships with OEMs such as Horner, Siemens, and Wago.

Research & Development Team

The industrial experts from Axis Global Automation run a R&D unit that is responsible for ensuring that our industrial solutions meet global standards and enable our clients achieve operational excellence. Our R&D unit is also responsible for constantly upgrading our technical training content to ensure that we stay abreast with the development in the automation and robotics sector.

2. TRAINING METHODOLOGY:

- Hands-On practical training
- Live Demonstrations
- Work on real-time industrial projects
- Industry Expert Lectures & Seminars for Learning the current technology trends
- Case Studies for conceptual training

3. TRAINING HIGHLIGHTS:

- Fully Equipped Advanced Lab
- Mobile Training Unit for Training Off-Campus
- Hands-on, Practical, Industry Oriented Training
- Case Studies For Various Processes

- Individual Focus
- Industry Experts as trainers
- Real Time Projects
- On-site Industrial Training

4. TRAINING BENEFITS:

- Understand the need and application of automation in industries
- Comprehensive programming, designing and troubleshooting knowledge on automation and robotics tools and technologies
- Enable selection, deployment and maintenance of automation and robotics tools in the industries
- Practical training that enables candidates to be deployed immediately on-the-job

5. SPECIFIC AREAS OF EXCELLENCE:

Oil & Gas

Automotive & Transportation

Food & Beverages

Pharmaceuticals

Machine Builder Solutions (OEM)

Building Management Systems

Metals, Mining, Cement

Paper, Pulp and Sugar Printing,

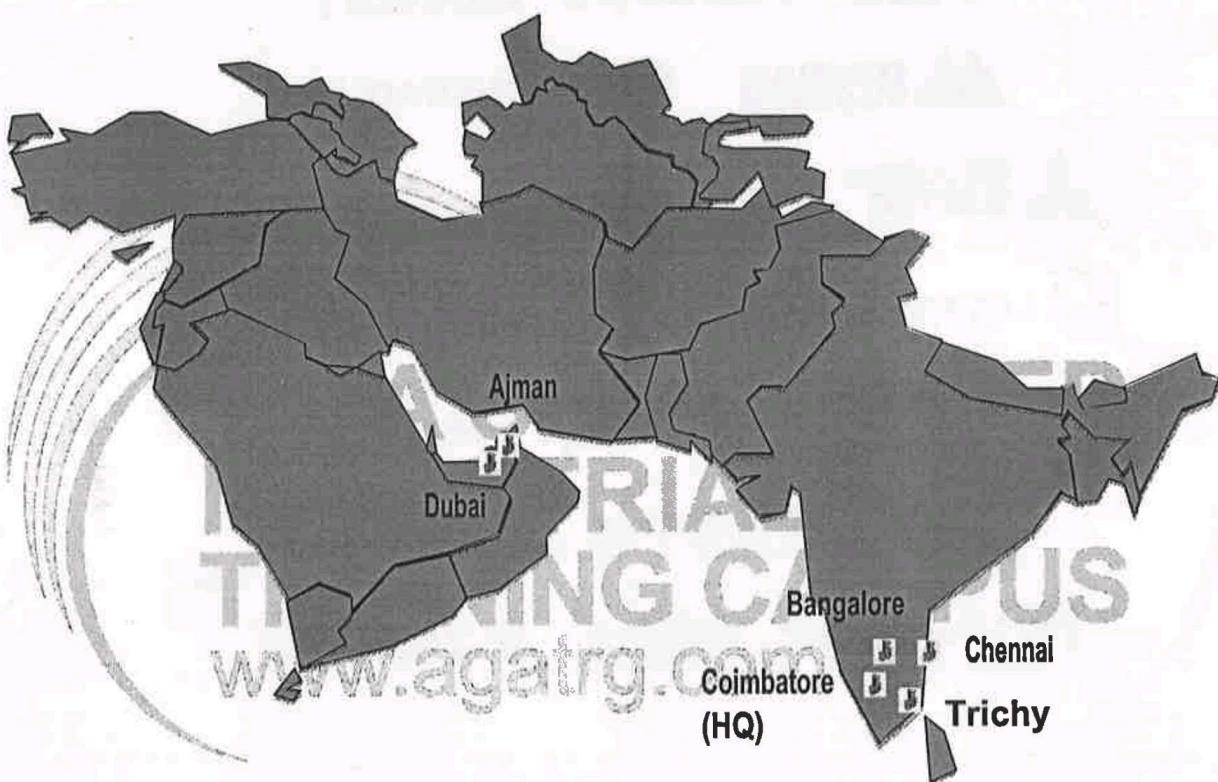
Packaging & Publishing

Textile & Fiber

Power and Electricity

Water, Waste-water Plants

6. OUR GLOBAL PRESENCE:



7. OUR TRAINING BRANDS:

ABB | SIEMENS | OMRON

MESSUNG | AB ALLEN-BRADLEY

**MITSUBISHI
ELECTRIC**

**HORNER
AUTOMATION GROUP**

DELTA

LARSEN & TOUBRO

FANUC

Wunderware

KEYENCE

Panasonic

Honeywell

LG

**CONTROL
TECHNIQUES**

**Schneider
Electric**

Fuji Electric

WAGO

YASKAWA

8. OUR CLIENTS:



YAMAHA



MRF

TOSHIBA
Leading Innovation >>>

apollo



Rane
Expanding Horizons

PEPSICO

SAINT-GOBAIN



caparo

Axles India Limited

YASKAWA TAFE



MOBIS



pricol
Better Lives for a better planet

**Hindustan Unilever
Limited**

UNITED SPIRITS

**SAB
MILLER**



TIDEL

**BRIGADE
GROUP**



GEDEE WEILER



SODECIA

Pengalur Roofings Pvt. Ltd.

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PROFESSIONAL
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Techzone
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Chennai

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Brakes India Limited



Wheels India Limited



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9. VALUE ADDED PROGRAM PROPOSAL & OVERVIEW:

S.No	Training On	Duration in days 7hrs /day	Fees per student (plus 18% GST)
1.	Certified in Industrial Robotics [PLC & ,YASKAWA MOTOMAN, MOTOSIM S/W SIMULATION	5 Days	2000/-

Our Services

**Industrial Based Training | Industrial Based Projects |
Industrial Workshops Industrial Seminars | Guest
Lectures | Staff Training | Industrial Visit | Placements
Institutional Lab Requirements | Industrial Lab
Requirements**

**Center of Excellence (COE) – Advanced Research Lab
for Robotics & Automation**

Thanks & Regards

Sudhakar. S

Sr.Business Development
Engineer
AGIIT
9655 758 759 & 9841 731 732

***From Axis Global Automation:**

1. Trainers
2. Necessary Software & Materials as per the training Modules
3. Certificates from our end after completion.

***From College:**

1. Student strength of Minimum 45 Nos
2. Seminar Hall, Classroom Facilities, LCD Projector & Speakers system
3. Lab Facilities with upgraded XP-2 OS systems (Max. 2 Student per system)
4. Accommodation Facilities & Food Facilities for our Trainers, if applicable
5. Vehicles Facilities for Transportation of Materials, if applicable

10. TERMS & CONDITIONS

PAYMENTS, DUTIES & TAXES:

1. The prices quoted are exclusive of 18% GST (i.e. Central GST/ State GST).
2. TDS @ 10% Extra as May applicable at the time of Training.
3. 100% of Training fees payment should be receipt at the time of 100% training completion.



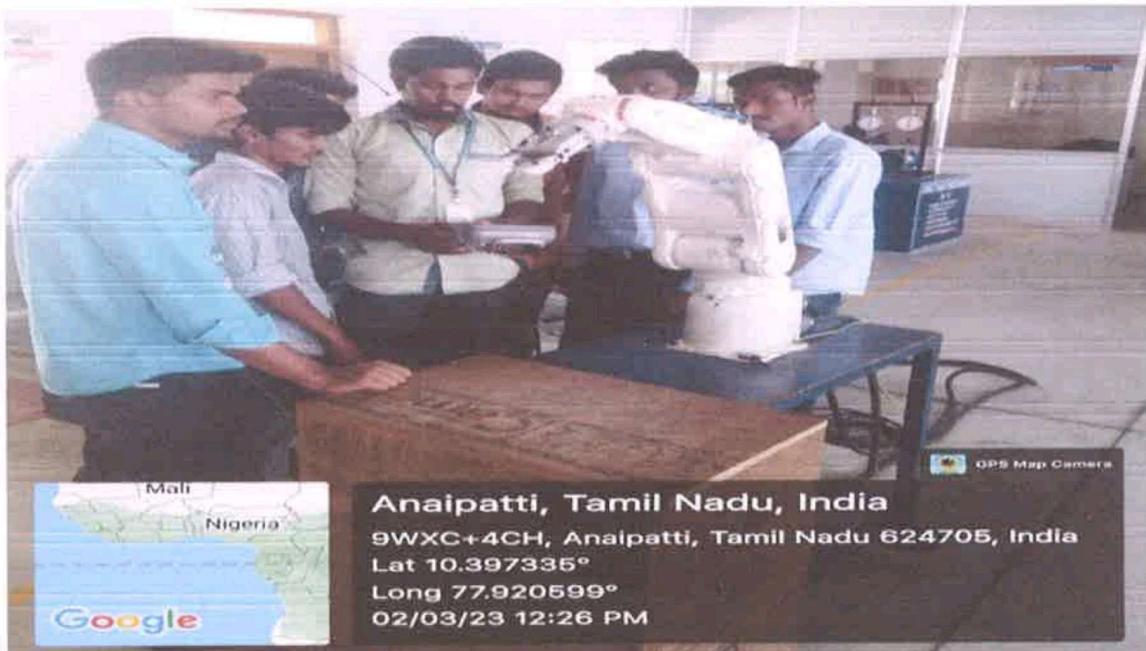
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Summary Report

The department of Electrical and Electronics Engineering, SSM Institute of Engineering and Technology conducted **Technology training on Industrial Robotics** from 6th March 2023 to 11th March 2023. The course covered topics the anatomy of industrial robots deals with the assembling of outer components of a robot such as wrist, arm and body. Before jumping into robot configurations, here are some of the key facts about robot anatomy. (a) Joints and Links (b) Common Robot Configurations. Students have attended assessment tests at the end of the course and certificates were issued. The students from third and final year EEE attended the course and got benefitted.





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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

TECHNOLOGY TRAINING ON "INDUSTRIAL ROBOTICS"

ATTENDANCE SHEET

No.	Reg.no.	Student Name	06.03.23		07.03.23		08.03.23		09.03.23		10.03.23		11.03.23	
			FN	AN										
1	922120105001	M.AKASHKUMAR	Ashwini											
2	922120105002	S.A.AMANULLA	Anuj											
3	922120105003	P.M.BALAJI	P.M.Balaji	P.M.Balaji	P.M.Balaji	P.M.Balaji	P.M.Balaji	P.M.Balaji	P.M.Balaji	P.M.Balaji	P.M.Balaji	P.M.Balaji	P.M.Balaji	P.M.Balaji
4	922120105005	U.DINESHKUMAR	Dinesh											
5	922120105006	T.GEETHANJALI	Geetha											
6	922120105007	P.JOTHISELVAM	Te	R										
7	922120105008	N.KARTHIKEYAN	(R)											
8	922120105009	M.MARIARAJ	Mariaraj											
9	922120105010	S.MOHAMED ABURAR	M.ABS											
10	922120105011	S.MOHAMED KASIM	Kasim	Kasim	Kasim	Kasim	Kasim	Kasim	Kasim	Kasim	Kasim	Kasim	Kasim	Kasim
11	922120105012	M.MONESH	Monesh											
12	922120105013	S.PREETHI	S.R.PT											
13	922120105014	M.PREETHIVIRAJ	M.PT											
14	922120105015	T.ROHITH	T.Rohith	T.Rohith	T.Rohith	T.Rohith	T.Rohith	T.Rohith	T.Rohith	T.Rohith	T.Rohith	T.Rohith	T.Rohith	T.Rohith
15	922120105016	S.SADHAM HUSSAIN	S.D.Sadhu											
16	922120105017	S.SANGARAPANDI	Sri											
17	922120105018	R.SHANMUGAVEL	(Vel)											
18	922120105019	M.SURIYA PRAKASH	SP											
19	922120105020	V.TAMILSELVAN	V.T.Selv											
20	922120105021	H.THIRSATH DANIEL	H.T.DM											
21	922120105301	M.HARIKRISHNA	M.Hari											
22	922120105302	R.SHARAN KAILASH	(S)											

Faculty Incharge

HoD/EMR

Principal



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			FN	AN										
18	922119105019	MOHAMMED HAFEEZ A	haf	eez										
19	922119105020	MOHAMMED JAVITH S	mohe	etho										
20	922119105021	MOUNA JOTHI M	muna	jotu										
21	922119105022	MUTHUKUMAR R	muthu	kumar										
22	922119105023	NAGARANI M	nagarani	m	nagarani	m	nagarani	m	nagarani	m	nagarani	m	nagarani	m
23	922119105024	NASEER HUSSAIN S	s. naseer	s. naseer										
24	922119105025	PRAKASH T	prakash	t	prakash	t	prakash	t	prakash	t	prakash	t	prakash	t
25	922119105026	PREETHIKA J	preethika	j	preethika	j	preethika	j	preethika	j	preethika	j	preethika	j
26	922119105027	PUNITHA VIJAYASRI P	vijayasri	p	vijayasri	p	vijayasri	p	vijayasri	p	vijayasri	p	vijayasri	p
27	922119105028	RAJESH MANI K	rajesw	mani										
28	922119105029	RESHMA P	reshma	p	reshma	p	reshma	p	reshma	p	reshma	p	reshma	p
29	922119105030	RISHIKARAN	rishikaran											
30	922119105031	ROBIN NICHOLAS S	robin	s	robin	s	robin	s	robin	s	robin	s	robin	s
31	922119105032	SANGAVI SRI M	sangavi	m	sangavi	m	sangavi	m	sangavi	m	sangavi	m	sangavi	m
32	922119105033	SARAVANAN R	saravanan	r	saravanan	r	saravanan	r	saravanan	r	saravanan	r	saravanan	r
33	922119105034	SHAGIL P	shagil	p	shagil	p	shagil	p	shagil	p	shagil	p	shagil	p
34	922119105035	SHALINI T	shalini	t	shalini	t	shalini	t	shalini	t	shalini	t	shalini	t
35	922119105036	SIVASUBRAMANIS	sivasubramanis											
36	922119105037	SRI VARSHAN K	sri varshan	k	sri varshan	k	sri varshan	k	sri varshan	k	sri varshan	k	sri varshan	k
37	922119105038	SURIYA SELVAM I	suriya	i	suriya	i	suriya	i	suriya	i	suriya	i	suriya	i
38	922119105039	VAISHNAVI C	vaishnavi	c	vaishnavi	c	vaishnavi	c	vaishnavi	c	vaishnavi	c	vaishnavi	c
39	922119105040	VINITH PRAVEEN KUMAR V	vinith	v	vinith	v	vinith	v	vinith	v	vinith	v	vinith	v
40	922119105041	VINOOTH KUMAR S	vinooth	s	vinooth	s	vinooth	s	vinooth	s	vinooth	s	vinooth	s
41	922119105042	VISWAA J	viswaa	j	viswaa	j	viswaa	j	viswaa	j	viswaa	j	viswaa	j
42	922119105301	AKASH A	akash	a	akash	a	akash	a	akash	a	akash	a	akash	a
43	922119105302	BAVADHARANI U	bavadarani	u	bavadarani	u	bavadarani	u	bavadarani	u	bavadarani	u	bavadarani	u
44	922119105303	BHARATHKUMAR K	bharathkumar	k										

Mr.
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for
HOD/TEC

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

TECHNOLOGY TRAINING ON "INDUSTRIAL ROBOTICS"

MARK STATEMENT

S. No.	Reg.no.	Student Name	MARK
1	922119105001	ABINAYA S S	24
2	922119105002	ANIESH ANGEL A	20
3	922119105003	ARUL NITHISH KUMAR R	18
4	922119105004	BEBINA RITHIKA J	6
5	922119105005	BRUMMA THAMO THARAN M	12
6	922119105006	DHEEPAN KUMAR G	6
7	922119105007	DHILIP LAKSHMAN V	8
8	922119105008	ESHWAR J	16
9	922119105009	GNANA AROCKYA AMALI B	11
10	922119105010	GOKULA PANDIYAN A	20
11	922119105011	HARINI M	22
12	922119105012	HARIKRASATH S	12
13	922119105013	HEMALATHA S	9
14	922119105014	KARTHIKEYAN B	13
15	922119105016	KRISHNA LEELA S	9
16	922119105017	MANJULA S	12
17	922119105018	MANOJ KUMAR A	5

S. No.	Reg.no.	Student Name	MARK
18	922119105019	MOHAMMED HAFEEZ A	16
19	922119105020	MOHAMMED JAVITH S	7
20	922119105021	MOUNA JOTHI M	13
21	922119105022	MUTHUKUMAR R	16
22	922119105023	NAGARANI M	8
23	922119105024	NASEER HUSSAIN S	12
24	922119105025	PRAKASH T	13
25	922119105026	PREETHIKA J	21
26	922119105027	PUNITHA VIJAYASRI P	15
27	922119105028	RAJESH MANI K	18
28	922119105029	RESHMA P	23
29	922119105030	RISHIKARAN	16
30	922119105031	ROBIN NICHOLAS S	18
31	922119105032	SANGAVI SRI M	21
32	922119105033	SARAVANAN R	06
33	922119105034	SHAGIL P	10
34	922119105035	SHALINI T	21
35	922119105036	SIVASUBRAMANI S	16
36	922119105037	SRI VARSHAN K	18
37	922119105038	SURIYA SELVAM I	5
38	922119105039	VAISHNAVI C	10
39	922119105040	VINITH PRAVEEN KUMAR V	12
40	922119105041	VINOOTH KUMAR S	8
41	922119105042	VISWAA J	10
42	922119105301	AKASH A	14
43	922119105302	BAVADHARANI U	13
44	922119105303	BHARATHKUMAR K	17

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MARK SHEET

S. No.	Reg.no.	Student Name	MARK
1	922120105001	M.AKASHKUMAR	11
2	922120105002	S.A.AMANULLA	06
3	922120105003	P.M.BALAJI	18
4	922120105005	U.DINESHKUMAR	17
5	922120105006	T.GEETHANJALI	21
6	922120105007	P.JOTHSIELVAM	16
7	922120105008	N.KARTHIKEYAN	21
8	922120105009	M.MARIARAJ	20
9	922120105010	S.MOHAMED ABURAR	13
10	9221120105011	S.MOHAMED KASIM	10
11	922120105012	M.MONESH	08
12	922120105013	S.PREETHI	12
13	922120105014	M. PREETHIVIRAJ	14
14	922120105015	T.ROHITH	18
15	922120105016	S.SADHAM HUSSAIN	10
16	922120105017	S.SANGARAPANDI	20
17	922120105018	R.SHANMUGAVEL	16
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20	922120105021	H. THIRSATH DANIEL	23
21	922120105301	M.HARIKRASATH	08
22	922120105302	R.SHARAN KAILASH	12

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Department of Electrical and Electronics Engineering
TECHNOLOGY TRAINING PROGRAMME ON INDUSTRIAL ROBOTICS

ROBOTICS MULTIPLE CHOICE QUESTION

Name of the student:

Year/Sem:

Date:

1. A place where power, information, or a result leaves a system

- 1. chassis
- 2. output
- 3. sensor
- 4. troubleshooting

Answer: output

2. Which of the following describes the use of technology or machinery, specifically involving gases?

- 1. Pneumatics
- 2. Hydraulics
- 3. Actuation
- 4. Carbonation

3. The position or alignment relative to points of the compass or other specific directions.

- 1. Loops
- 2. Sensor
- 3. Chassis
- 4. Orientation

4.A A mechanism having its motive power so concealed that it appears to move spontaneously

- 1. Automatic
- 2. Clock Jack
- 3. Robot
- 4. Automata

5. The the branch of technology that deals with dimensions of microscopic proportion, is known as?

- 1. Nanny technology
- 2. Nanotechnology
- 3. Micro technology
- 4. Micro machinery

6. Which of the following is not an advantage of Robots?

- 1. They can assist humans with disabilities
- 2. They can replace jobs
- 3. They can be used in dangerous environment
- 4. They don't get tired or require a break

7. The Hummingbird _____ require extra power to be able to work.
1. Sensors
 2. LEDs
 3. Motors
 4. Tri-Color LEDs
8. The branch of technology that deals with the design, construction, operation, and application of robots _____
1. levers
 2. robotics
 3. creative power
 4. Science CSF
9. When working in a group for robotics, students should _____
1. stay on task but don't work with other group members
 2. Socialize with group members outside of your group and then work alone
 3. Socialize with other group members and don't help your group
 4. stay on task and work with other group members appropriately
10. A rigid external covering for the body in some invertebrate animals but also robots.
1. Exoskeleton
 2. Armor
 3. Endoskeleton
 4. Hardware
11. The 3rd law of robotics Spirit Isaac Asimov first announced the 3 laws of robotics in 1942.
1. A robot may not injure a human being or, through inaction, allow a human being to come to harm
 2. A robot can't go to school
 3. A robot must obey orders given it by human beings except where such orders would conflict with the First law
 4. A robot must protect its own existence as long as such protection does not conflict with the First or Second Law
12. How many systems does a robot have?
1. 2
 2. 6
 3. 4
 4. 3
13. Engines and joints belong to what system?
1. Digestive system
 2. Sensory system
 3. Electric system
 4. Mechanic system
14. How many types of robots are there?
1. 7
 2. 10
 3. 6
 4. 8

- 15. What are the components of the electric system?**
1. Electric joints and cables
 2. Batteries and electric wiring
 3. Engines and joints
 4. thunder and lightning
- 16. How many components does the control system have?**
1. 4
 2. 1
 3. 2
 4. 5
- 17. The processor belongs to the**
1. Sensory system
 2. Mechanic system
 3. Electric system
 4. Control system
- 18. One of these is NOT a type of robot**
1. Medical
 2. Industrial
 - 3 Household
 - 4.Apologetic
- 19. The small mobile robot base used in the Robot Educator. This robot is able to perform some but not all of the tasks in the Robotics Engineering activities**
1. Light sensor
 2. Lego Mindstorms Education Software
 3. Robot
 4. Robot Educator Model (REM)
- 20. A block is the basic unit of programming in the NXT programming Software. Blocks perform their operations in order along the Sequence Beam**
1. Touch Sensor
 2. Block (programming)
 3. Ports
 4. Behaviors
- 21. The primary source of physical motion in the Mindstorms NXT system.**
1. Interactive Servo Motor
 2. Behaviors
 3. Light Sensor
 4. Touch Sensor
- 22. A machine that is able to interact with and respond to its environment. characterized by three central capabilities: the ability to Sense, the ability to Plan, and the ability to Act**
1. Code
 2. Taskbot
 3. Robots
 4. Ports
- 23.The three characteristic capabilities that define a robot _____**
1. Comment
 2. Sensor
 3. Sense-Plan-Act
 4. NXT Brick

24.When working in a group for robotics, students should _____

1. Socialize instead of work and then work alone
2. Stay on task and don't work with your group
3. Work alone and don't socialize with group members
4. stay on task and work with group members appropriately

25.General term for any command or group of commands in a program. In the NXT Programming Software, this is one or more blocks _____

1. Comment
2. Code
3. Ports
4. Robot



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Dindigul – Palani Highway, Dindigul 624 002

Department of Electrical and Electronics Engineering

TECHNOLOGY TRAINING PROGRAMME ON INDUSTRIAL ROBOTICS

ROBOTICS MULTIPLE CHOICE QUESTION

Name of the student:

Year/Sem:

Date:

ABINAYA

1. A place where power, information, or a result leaves a system
1. chassis
② output
3. sensor
4. troubleshooting

Answer: output

2. Which of the following describes the use of technology or machinery, specifically involving gases?
① Pneumatics
2. Hydraulics
3. Actuation
4. Carbonation

3. The position or alignment relative to points of the compass or other specific directions.
1. Loops
2. Sensor
3. Chassis
④ Orientation

- 4.A A mechanism having its motive power so concealed that it appears to move spontaneously
1. Automatic
2. Clock Jack
3. Robot
④ Automata

5. The the branch of technology that deals with dimensions of microscopic proportion, is known as?
1. Nunny technology
② Nanotechnology
3. Micro technology
4. Micro machinery

6. Which of the following is not an advantage of Robots?
1 They can assist humans with disabilities
② They can replace jobs
3. They can be used in dangerous environment
4. They don't get tired or require a break

~~7. The Hummingbird _____ require extra power to be able to work.~~

- 1. Sensors
- 2. LEDs
- 3. Motors
- 4. Tri-Color LEDs

~~8. The branch of technology that deals with the design, construction, operation, and application of robots _____~~

- 1. levers
- 2. robotics
- 3. creative power
- 4. Science CSF

~~9. When working in a group for robotics, students should _____~~

- 1. stay on task but don't work with other group members
- 2. Socialize with group members outside of your group and then work alone
- 3. Socialize with other group members and don't help your group
- 4. stay on task and work with other group members appropriately

~~10. A rigid external covering for the body in some invertebrate animals but also robots.~~

- 1. Exoskeleton
- 2. Armor
- 3. Endoskeleton
- 4. Hardware

~~11. The 3rd law of robotics Spirit Isaac Asimov first announced the 3 laws of robotics in 1942.~~

- 1. A robot may not injure a human being or, through inaction, allow a human being to come to harm
- 2. A robot can't go to school
- 3. A robot must obey orders given it by human beings except where such orders would conflict with the First law
- 4. A robot must protect its own existence as long as such protection does not conflict with the First or Second Law

~~12. How many systems does a robot have?~~

- 1. 2
- 2. 6
- 3. 4
- 4. 3

~~13. Engines and joints belong to what system?~~

- 1. Digestive system
- 2. Sensory system
- 3. Electric system
- 4. Mechanic system

~~14. How many types of robots are there?~~

- 1. 7
- 2. 10
- 3. 6
- 4. 8

15. What are the components of the electric system?

- 1. Electric joints and cables
- 2. Batteries and electric wiring
- 3. Engines and joints
- 4. thunder and lightning

16. How many components does the control system have?

- 1. 4
- 2. 1
- 3. 2
- 4. 5

17. The processor belongs to the

- 1. Sensory system
- 2. Mechanic system
- 3. Electric system
- 4. Control system

18. One of these is NOT a type of robot

- 1. Medical
- 2. Industrial
- 3 Household
- 4. Apologetic

19. The small mobile robot base used in the Robot Educator. This robot is able to perform some but not all of the tasks in the Robotics Engineering activities

- 1. Light sensor
- 2. Lego Mindstorms Education Software
- 3. Robot
- 4. Robot Educator Model (REM)

20. A block is the basic unit of programming in the NXT programming Software. Blocks perform their operations in order along the Sequence Beam

- 1. Touch Sensor
- 2. Block (programming)
- 3. Ports
- 4. Behaviors

21. The primary source of physical motion in the Mindstorms NXT system.

- 1. Interactive Servo Motor
- 2. Behaviors
- 3. Light Sensor
- 4. Touch Sensor

22. A machine that is able to interact with and respond to its environment. characterized by three central capabilities: the ability to Sense, the ability to Plan, and the ability to Act

- 1. Code
- 2. Taskbot
- 3. Robots
- 4. Ports

23. The three characteristic capabilities that define a robot

- 1. Comment
- 2. Sensor
- 3. Sense-Plan-Act
- 4. NXT Brick

24. When working in a group for robotics, students should _____

1. Socialize instead of work and then work alone
2. Stay on task and don't work with your group
3. Work alone and don't socialize with group members
4. stay on task and work with group members appropriately

25. General term for any command or group of commands in a program. In the NXT Programming Software, this is one or more blocks _____

1. Comment
2. Code
3. Ports
4. Robot

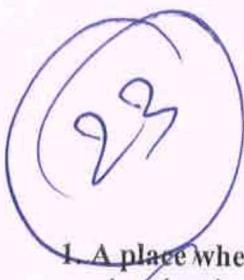


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Department of Electrical and Electronics Engineering

TECHNOLOGY TRAINING PROGRAMME ON INDUSTRIAL ROBOTICS



ROBOTICS MULTIPLE CHOICE QUESTION

Name of the student: H. Thrishath Daniel

Year/Sem: 11

Date: 11/03/2023

1. A place where power, information, or a result leaves a system
1. chassis
 2. output
3. sensor
4. troubleshooting

Answer: output

2. Which of the following describes the use of technology or machinery, specifically involving gases?
 1. Pneumatics
2. Hydraulics
3. Actuation
4. Carbonation

3. The position or alignment relative to points of the compass or other specific directions.
1. Loops
2. Sensor
3. Chassis
 4. Orientation

- 4.A A mechanism having its motive power so concealed that it appears to move spontaneously
1. Automatic
2. Clock Jack
3. Robot
 4. Automata

5. The the branch of technology that deals with dimensions of microscopic proportion, is known as?
1. Nanny technology
 2. Nanotechnology
3. Micro technology
4. Micro machinery

6. Which of the following is not an advantage of Robots?
1. They can assist humans with disabilities
 2. They can replace jobs
3. They can be used in dangerous environment
4. They don't get tired or require a break

7. The Hummingbird _____ require extra power to be able to work.

- 1. Sensors
- 2. LEDs
- 3. Motors
- 4. Tri-Color LEDs

8. The branch of technology that deals with the design, construction, operation, and application of robots _____

- 1. levers
- 2. robotics
- 3. creative power
- 4. Science CSF

9. When working in a group for robotics, students should _____

- 1. stay on task but don't work with other group members
- 2. Socialize with group members outside of your group and then work alone
- 3. Socialize with other group members and don't help your group
- 4. stay on task and work with other group members appropriately

10. A rigid external covering for the body in some invertebrate animals but also robots.

- 1. Exoskeleton
- 2. Armor
- 3. Endoskeleton
- 4. Hardware

11. The 3rd law of robotics Spirit Isaac Asimov first announced the 3 laws of robotics in 1942.

- 1. A robot may not injure a human being or, through inaction, allow a human being to come to harm
- 2. A robot can't go to school
- 3. A robot must obey orders given it by human beings except where such orders would conflict with the First law
- 4. A robot must protect its own existence as long as such protection does not conflict with the First or Second Law

12. How many systems does a robot have?

- 1. 2
- 2. 6
- 3. 4
- 4. 3

13. Engines and joints belong to what system?

- 1. Digestive system
- 2. Sensory system
- 3. Electric system
- 4. Mechanic system

14. How many types of robots are there?

- 1. 7
- 2. 10
- 3. 6
- 4. 8

15. What are the components of the electric system?

1. Electric joints and cables
2. Batteries and electric wiring
3. Engines and joints
4. thunder and lightning

16. How many components does the control system have?

1. 4
2. 1
3. 2
4. 5

17. The processor belongs to the

1. Sensory system
2. Mechanic system
3. Electric system
4. Control system

18. One of these is NOT a type of robot

1. Medical
2. Industrial
3. Household
4. Apologetic

19. The small mobile robot base used in the Robot Educator. This robot is able to perform some but not all of the tasks in the Robotics Engineering activities

1. Light sensor
2. Lego Mindstorms Education Software
3. Robot
4. Robot Educator Model (REM)

20. A block is the basic unit of programming in the NXT programming Software. Blocks perform their operations in order along the Sequence Beam

1. Touch Sensor
2. Block (programming)
3. Ports
4. Behaviors

21. The primary source of physical motion in the Mindstorms NXT system.

1. Interactive Servo Motor
2. Behaviors
3. Light Sensor
4. Touch Sensor

22. A machine that is able to interact with and respond to its environment. characterized by three central capabilities: the ability to Sense, the ability to Plan, and the ability to Act

1. Code
2. Taskbot
3. Robots
4. Ports

23. The three characteristic capabilities that define a robot _____

1. Comment
2. Sensor
3. Sense-Plan-Act
4. NXT Brick

24. When working in a group for robotics, students should _____

1. Socialize instead of work and then work alone
2. Stay on task and don't work with your group
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4. stay on task and work with group members appropriately

25. General term for any command or group of commands in a program. In the NXT Programming Software, this is one or more blocks _____

1. Comment
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Department of Electrical and Electronics Engineering

TECHNOLOGY TRAINING PROGRAMME ON INDUSTRIAL ROBOTICS

ROBOTICS MULTIPLE CHOICE QUESTION

Name of the student: S. MOHAMMED ABRAR

Year/Sem: II

Date: 17-03-23

1. A place where power, information, or a result leaves a system

- 1. chassis
- 2. output
- 3. sensor
- 4. troubleshooting

Answer: output

2. Which of the following describes the use of technology or machinery, specifically involving gases?

- 1. Pneumatics
- 2. Hydraulics
- 3. Actuation
- 4. Carbonation

3. The position or alignment relative to points of the compass or other specific directions.

- 1. Loops
- 2. Sensor
- 3. Chassis
- 4. Orientation

4.A A mechanism having its motive power so concealed that it appears to move spontaneously

- 1. Automatic
- 2. Clock Jack
- 3. Robot
- 4. Automata

5. The branch of technology that deals with dimensions of microscopic proportion, is known as?

- 1. Nanny technology
- 2. Nanotechnology
- 3. Micro technology
- 4. Micro machinery

6. Which of the following is not an advantage of Robots?

- 1. They can assist humans with disabilities
- 2. They can replace jobs
- 3. They can be used in dangerous environment
- 4. They don't get tired or require a break

~~7.~~ 1. The Hummingbird _____ require extra power to be able to work.

- 1. Sensors
- 2. LEDs
- 3. Motors
- 4. Tri-Color LEDs

~~8.~~ 8. The branch of technology that deals with the design, construction, operation, and application of robots _____

- 1. levers
- 2. robotics
- 3. creative power
- 4. Science CSF

~~9.~~ 9. When working in a group for robotics, students should _____

- 1. stay on task but don't work with other group members
- 2. Socialize with group members outside of your group and then work alone
- 3. Socialize with other group members and don't help your group
- 4. stay on task and work with other group members appropriately

~~10.~~ 10. A rigid external covering for the body in some invertebrate animals but also robots.

- 1. Exoskeleton
- 2. Armor
- 3. Endoskeleton
- 4. Hardware

~~11.~~ 11. The 3rd law of robotics Spirit Isaac Asimov first announced the 3 laws of robotics in 1942.

- 1. A robot may not injure a human being or, through inaction, allow a human being to come to harm
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~~12.~~ 12. How many systems does a robot have?

- 1. 2
- 2. 6
- 3. 4
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- 1. Digestive system
- 2. Sensory system
- 3. Electric system
- 4. Mechanic system

~~14.~~ 14. How many types of robots are there?

- 1. 7
- 2. 10
- 3. 6
- 4. 8

~~X~~ 15. What are the components of the electric system?

1. Electric joints and cables
2. Batteries and electric wiring
3. Engines and joints
4. thunder and lightning

~~X~~ 16. How many components does the control system have?

1. 4
2. 1
3. 2
4. 5

~~C~~ 17. The processor belongs to the

1. Sensory system
2. Mechanic system
3. Electric system
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~~C~~ 18. One of these is NOT a type of robot

1. Medical
2. Industrial
3. Household
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~~C~~ 19. The small mobile robot base used in the Robot Educator. This robot is able to perform some but not all of the tasks in the Robotics Engineering activities

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1. Touch Sensor
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~~X~~ 21. The primary source of physical motion in the Mindstorms NXT system.

1. Interactive Servo Motor
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3. Light Sensor
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~~C~~ 22. A machine that is able to interact with and respond to its environment. characterized by three central capabilities: the ability to Sense, the ability to Plan, and the ability to Act

1. Code
2. Taskbot
3. Robots
4. Ports

~~X~~ 23. The three characteristic capabilities that define a robot _____

1. Comment
2. Sensor
3. Sense-Plan-Act
4. NXT Brick

24. When working in a group for robotics, students should _____

1. Socialize instead of work and then work alone
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25. General term for any command or group of commands in a program. In the NXT Programming Software, this is one or more blocks _____

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Department of Electrical and Electronics Engineering

TECHNOLOGY TRAINING PROGRAMME ON INDUSTRIAL ROBOTICS

ROBOTICS MULTIPLE CHOICE QUESTION

22

Name of the student: *Hariini M*

Year/Sem: *II*

Date: *11-03-23*

1. A place where power, information, or a result leaves a system

- 1. chassis
- 2. output
- 3. sensor
- 4. troubleshooting

Answer: output

2. Which of the following describes the use of technology or machinery, specifically involving gases?

- 1. Pneumatics
- 2. Hydraulics
- 3. Actuation
- 4. Carbonation

3. The position or alignment relative to points of the compass or other specific directions.

- 1. Loops
- 2. Sensor
- 3. Chassis
- 4. Orientation

4.A A mechanism having its motive power so concealed that it appears to move spontaneously

- 1. Automatic
- 2. Clock Jack
- 3. Robot
- 4. Automata

5. The the branch of technology that deals with dimensions of microscopic proportion, is known as?

- 1. Nanny technology
- 2. Nanotechnology
- 3. Micro technology
- 4. Micro machinery

6. Which of the following is not an advantage of Robots?

- 1. They can assist humans with disabilities
- 2. They can replace jobs
- 3. They can be used in dangerous environment
- 4. They don't get tired or require a break

24. When working in a group for robotics, students should _____

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- ④ 4. stay on task and work with group members appropriately

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- ② 2. Code
3. Ports
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Department of Electrical and Electronics Engineering

TECHNOLOGY TRAINING PROGRAMME ON INDUSTRIAL ROBOTICS

ROBOTICS MULTIPLE CHOICE QUESTION

22

Name of the student: Hosini M
Year/Sem: IV
Date: 11-03-23

1. A place where power, information, or a result leaves a system

- 1. chassis
- 2. output
- 3. sensor
- 4. troubleshooting

Answer: output

2. Which of the following describes the use of technology or machinery, specifically involving gases?

- 1. Pneumatics
- 2. Hydraulics
- 3. Actuation
- 4. Carbonation

3. The position or alignment relative to points of the compass or other specific directions.

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3. Ports
4. Robot



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL - 624 002

Department of Electrical and Electronics Engineering

STUDENT FEEDBACK FORM

Name of the Student: Geethanjali . T

Year/Sem: 2023 / vi

Date: 11. 3. 23

Dear Student,

You are required to give your feedback on the following aspects. Please tick in the respective column.

S.No	Criteria	Rating				
		Excellent	Very good	Good	Fair	Satisfactory
1	Course content		✓			
2	Skill development		✓			
3	Motivation			✓		
4	Regularity and punctuality of trainer			✓		
5	Coverage of syllabus			✓		
6	Interaction		✓			
7	Individual attention		✓			
8	Outcome		✓			
9	Other suggestions					


Faculty in charge


HoD/EEE



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL - 624 002

Department of Electrical and Electronics Engineering

STUDENT FEEDBACK FORM

Name of the Student: Manjula. S

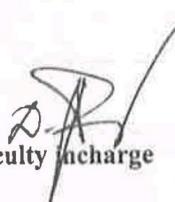
Year/Sem: IV / VII

Date: 4/3/03

Dear Student,

You are required to give your feedback on the following aspects. Please tick in the respective column.

S.No	Criteria	Rating				
		Excellent	Very good	Good	Fair	Satisfactory
1	Course content	/				
2	Skill development		/			
3	Motivation		/			
4	Regularity and punctuality of trainer		/			
5	Coverage of syllabus	/				
6	Interaction		/			
7	Individual attention	/				
8	Outcome		/			
9	Other suggestions		-			


Faculty in charge


HoD/EEE



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL - 624 002

Department of Electrical and Electronics Engineering

STUDENT FEEDBACK FORM

Name of the Student: R. MUTHUKUMAR

Year/Sem: IV / VII

Date: 11/03/23

Dear Student,

You are required to give your feedback on the following aspects. Please tick in the respective column.

S.No	Criteria	Rating				
		Excellent	Very good	Good	Fair	Satisfactory
1	Course content	✓				
2	Skill development		✓			
3	Motivation		✓			
4	Regularity and punctuality of trainer		✓			
5	Coverage of syllabus	✓				
6	Interaction		✓			
7	Individual attention	✓				
8	Outcome		✓			
9	Other suggestions		—			

P-R
Faculty incharge

HoD/EEE

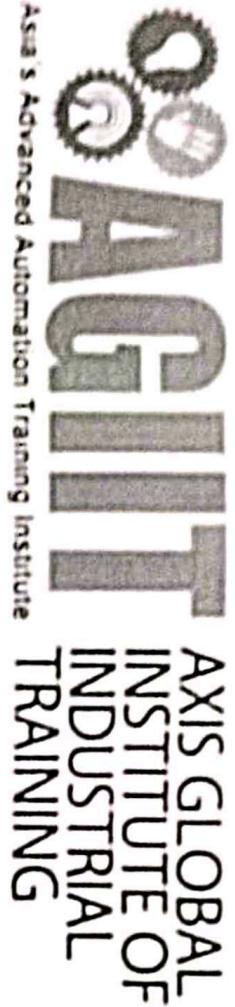
CERTIFICATE OF PARTICIPATION

This is to certify that Mr. /Ms R.SHANMUGAVEL has successfully completed the six days training program on Basics of "Industrial Robotics – Yaskawa Motoman". During the period from 06.03.2023 - 11.03.2023 conducted at SSM Institute of Engineering & Technology



ISSUING AUTHORITY


DIRECTOR



REG.NO.1184

AGIT/22-23/CTRGN492

CERTIFICATE OF PARTICIPATION

This is to certify that Mr. /Ms S.SANGARAPANDI has successfully completed the six days training program on Basics of "Industrial Robotics – Yaskawa Motoman". During the period from 06.03.2023 - 11.03.2023 conducted at SSM Institute of Engineering & Technology


ISSUING AUTHORITY




DIRECTOR





REG. NO. 1154



CERTIFICATE OF PARTICIPATION

AGITI22-23CTRACT002

This is to certify that Mr./Ms. M. PREETHIVIRAJ has successfully completed the six days training program on Basics of "Industrial Robotics - Yaskawa Motoman". During the period from 06.03.2023 - 11.03.2023 conducted at SSM Institute of Engineering & Technology

ISSUING AUTHORITY
[Signature]

DIRECTOR
[Signature]

S05001



REG.NO.1184

AGIT/22-23/CTRN/1494

CERTIFICATE OF PARTICIPATION

This is to certify that Mr. /Ms M.SURIYA PRAKASH has successfully completed the six days training program on Basics of "Industrial Robotics – Yaskawa Motoman". During the period from 06.03.2023 - 11.03.2023 conducted at

SSM Institute of Engineering & Technology

bpr
ISSUING AUTHORITY

bpr
DIRECTOR

REG.NO.1184

AGIT/22-23/CTAG/1498



CERTIFICATE OF PARTICIPATION

This is to certify that Mr. /Ms M.HARIKRASATH has successfully completed the six days training program on Basics of "Industrial Robotics – Yaskawa Motoman". During the period from 06.03.2023-11.03.2023 conducted at SSM Institute of Engineering & Technology

ISSUING AUTHORITY

DIRECTOR

ISO 9001