SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

Puducherry - 605 107

(An Autonomous Institution)

Madagadipet, Puducherry

Department
of
Electronics and Communication Engineering

Club Activities Report (2023-24)

Robotics and Automation Club

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Preface

The Robotics Club of the Electronics and Communication Engineering (ECE) Department is established with the vision of fostering innovation, creativity, and technical excellence among students. In an era where automation, artificial intelligence, and intelligent systems play a vital role in engineering and society, the club serves as a platform to bridge theoretical knowledge with practical implementation.

The club encourages students to explore the interdisciplinary nature of robotics by integrating concepts from electronics, communication systems, embedded systems, control engineering, and programming. Through hands-on workshops, project development, technical talks, competitions, and collaborative learning, the Robotics Club aims to nurture problem-solving skills, teamwork, and research-oriented thinking.

By providing exposure to emerging technologies and real-world applications, the Robotics Club empowers ECE students to become competent engineers and innovators, ready to meet future technological challenges and contribute meaningfully to industry and society.

Prepared by

G.K.Senthil Kumar
Assistant Professor
Department of Electronics and Communication Engineering

Dr.P.Raja
(HoD/ECE)

Dr. A.A.Arivalagar
(IQAC Co-Ordinator)

Dr. V.S.K. Venkatachalapathy
(Director Cum Principal)

About the Institution

Sri Manakula Vinayaga Educational Trust was founded to provide quality and affordable education to the weaker sections of society. The trust established Sri Manakula Vinayagar Engineering College (SMVEC) in 1999. SMVEC is an autonomous institution affiliated to Pondicherry University. It offers a variety of undergraduate, postgraduate, and research programs in engineering. SMVEC has been accredited by NAAC with “A” grade and NBA. The institution is also accredited by TATA consultancy services. The college has a good placement record with students getting job offers from top companies in India and abroad. SMVEC students have won many awards and accolades for their academic achievements.

Vision

To be globally recognized for excellence in quality education, innovation and research for the transformation of lives to serve the society.

Mission

M1: Quality Education : To provide comprehensive academic system that amalgamates the cutting edge technologies with best practices.

M2: Research and Innovation : To foster value-based research and innovation in collaboration with industries and institutions globally for creating intellectuals with
new avenues.

M3: Employability and Entrepreneurship : To inculcate the employability and entrepreneurial skills through value and skill based training.

M4: Ethical Values : To instill deep sense of human values by blending societal righteousness with academic professionalism for the growth of society.

About the department

The Department of Electronics and Communication Engineering is a top-notch department that offers high-quality UG, PG and Ph.D. programs. The UG program B.Tech - Electronics and Communication Engineering is accredited by the National Accreditation Board, AICTE-New Delhi, and has a placement record of over 80%. The department's graduates are highly sought after by employers in the Electronics and Communication sector.

Our department contributes significantly to achieving the national objective of envisioning the world with a clear and deep commitment and a sincere desire to meet the expectations of a rising, fast-developing technology.

Vision

Facilitate academic excellence and research among Electronics and Communication Engineers to meet global needs with high competence and ethical professionalism.

Mission

- **Academic Excellence:** To impart learning skills to meet the global challenges in the field of Electronics and Communication Engineering.
- **Research and Innovation:** To provide excellence in research and innovation through multidisciplinary specialization.
- **Employability and Entrepreneurship:** To enhance inter and intra-personal skills to make them employable and entrepreneurs.
- **Ethics:** To inculcate the significance of human values and professional skills to serve society.

Programs offered

- B.Tech - Electronics and Communication Engineering
- M.Tech - Electronics and Communication Engineering
- M.Tech - VLSI & Embedded Systems
- Ph.D - Electronics and Communication Engineering

About the Robotics and Automation Club

Summary of Club

The Robotics and Automation Club is a student organization that promotes the study and application of robotics and automation. The club offers a variety of activities and events for students, including:

- Technical workshops and lectures
- Competitions
- Field trips
- Social events

The club is open to all students interested in robotics and automation, regardless of their experience level. The club is a great way to learn about robotics, meet other students with similar interests, and get involved in hands-on projects.

The club is currently planning a number of events for the upcoming semester, including a robotics competition, a field trip to a local robotics company, and a social event. The club is also looking for new members to join and help plan and execute these events.

Objectives of Club

The objectives of the Robotics and Automation Club are:

- To promote the study and application of robotics and automation.
- To provide students with opportunities to learn about robotics and automation through technical workshops, lectures, competitions, field trips, and social events.
- To help students develop their technical skills and knowledge in robotics and automation.
- To encourage students to participate in robotics and automation competitions and events.
- To provide a forum for students to network with other students and professionals in the field of robotics and automation.
- To promote the field of robotics and automation to the public.

SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

Puducherry - 605 107

Department of Electronics and Communication Engineering

Members of Robotics and Automation Club

Date of inception	**2014**
Name of the Coordinator	**Dr.P.RAJA**

S.No	Position	Name	Year/ Sem/ Sec	Contact Number
1.	President	1.Soorya.G.S	III/ V/ A	7904601540
2.	Vice president	1.Suriya.I	III/ V/ A	7072105299
		2.Mohamed Riyaif .M	III/ V/ B	9791638595
3.	Secretary	1.Albin Rajesh	III/ V/ A	6383438155
		2.Abdul Rahman.A	III/ V/ B	8438190076
		3.Gokulan.S	III/ V/ C	9486971828
4.	Joint Secretary	1.Balamurugan.J	II/ III/ A	8870947664
		2.Joe maxwell	II/ III/ B	7824983590
		3.Ravi Varma	II/ III/ C	9489401319
		4.Sathish kumar .P.S	II/ III/ D	9095018226
5.	Treasurer	1. Aakash.PR	III/ V/ C	8072982353
		2. Monish.N	II/ III/ A	9150558720
		3. Santhosh.S	II/ III/ D	8248908841
6.	Technical Head	1.Harish Balaji	III/ V/ A	9487032818
		2.Maximus Auguste	III/ V/ B	8056550535
		3.Hariharan.S	III/ V/ C	7010581117
7.	Assistant Technical Head	1.Aaisha Shahani	II/ III/ A	9790983386
		2.Karthik.B	II/ III/ B	9360654828
		3.Vishvaji.T	II/ III/ C	7598597756
		4.Yuvanesh Balaji	II/ III/ D	9944583134
8.	Organization Head	1.Arokya Jesy.A	III/ V/ A	8015361030
		2.Mridhu Malya	III/ V/ B	9789183512
		3.Gomathi.S	III/ V/ C	7904781517
9.	Assistant Organization Head	1.Gowtham.J	II/ III/ A	8608352315
		2.Jayshree.S	II/ III/ B	8870947664
		3.Shivani	II/ III/ C	8608352315
		4.Yokeshwar.J	II/ III/ D	9360654828
10.	Publicity Head	1.Susmitha.J	III/ V/ A	8220931428
		2.Suvatha.V	III/ V/ B	7598407819
		3.Pachaiyappan	III/ V/ C	7871251319
11.	Assistant Publicity Head	1.Harish.R	II/ III/ A	9943984243

S.No	Position	Name	Year/ Sem/ Sec	Contact Number
		2.Harish.M	II/ III/ B	6383275748
		3.Rohith.K	II/ III/ C	9025358273
		4.Devanesh.S	II/ III/ D	7598597756
12.	Creative Head	1.Amalorpava jeni.A	III/ V/ A	8015361030
		2.Snekha.S	III/ V/ B	9566677100
		3.Keerthana.B	III/ V/ C	8778802002
13.	Assistant Creative Head	1. Dharshini	II/ III/ A	8300868246
		2.Yuvashakthi .B	II/ III/ B	6380783729
		3.Monica Muthu	II/ III/ C	9790983386
		4.Harini Vashini. P	II/ III/ D	8300868246

PURPOSE OF THE CLUB ACTIVITIES

Robotics and automation club was established in our college in the year 2014 with the motto to provide opportunity to students to get exposed to interdisciplinary branch of Engineering. The purpose of a Robotic and Automation Club is to focus specifically on robotics and automation technologies. This club is dedicated to exploring, learning, and advancing the field of robotics and automation. The main purposes of such a club include:

Education and Skill Development: The club aims to educate its members about robotics and automation concepts, principles, and technologies. It provides a platform for hands-on learning, where members can develop practical skills in designing, building, and programming robots and automated systems.

Exposure to Cutting-Edge Technologies: The club exposes its members to the latest advancements in robotics and automation, keeping them updated with the rapidly evolving technology in these fields.

Project-Based Learning: Members work on various robotics and automation projects, both individually and in teams. These projects help members apply their knowledge, experiment with ideas, and gain valuable experience.

Interdisciplinary Collaboration: Robotics and automation involve various disciplines, such as mechanical engineering, electrical engineering, computer science, and more. The club encourages interdisciplinary collaboration, fostering a holistic understanding of the field.

Competitions and Challenges: The club may participate in robotics competitions and challenges to test members' skills and creativity. Competitions provide motivation and a sense of achievement as members strive to build successful robots or automation solution.

Activity 1 - Introduction to Basic Robotics

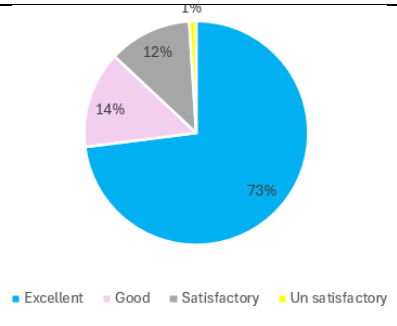
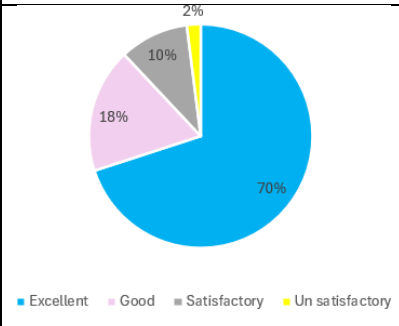
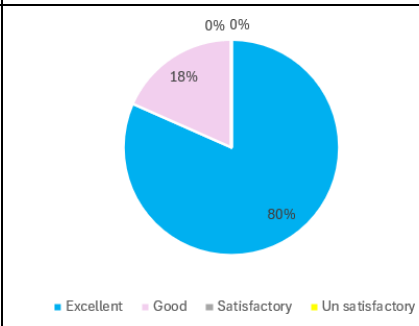
Name of the Activity :**Introduction to basic Robotics**
Name of the Club : Robotics and Automation Club
Date / Day of Activity : 27/09/2023/ Wednesday
Activity executed for : I year /I Sem / D Sec

Robotics is the branch of technology that deals with the design, construction, operation, and application of robots. A robot is a programmable machine capable of performing tasks automatically or with minimal human intervention. Basic robotics focuses on understanding the fundamental concepts, components, and working principles of robots. It combines knowledge from electronics, mechanical engineering, computer programming, and artificial intelligence to create machines that can assist humans in various fields.

The key components of a robot include sensors, actuators, controllers, and power supplies. Sensors allow robots to perceive their environment, while actuators help them move or manipulate objects. Controllers process the sensor data and provide instructions to the actuators. Power supplies, such as batteries or electrical connections, provide the energy required for operation. Understanding these basic components is essential for designing and building functional robots.

Robotics has applications in many areas, including industries, healthcare, defense, space exploration, and daily life. In industries, robots help with tasks like assembly, welding, and material handling. In healthcare, they assist in surgeries and patient care. By learning the fundamentals of robotics, students can develop skills to design, program, and operate robots, preparing them for advanced studies and real-world applications.

FEEDBACK

Was the class useful and relevant to the topic?	The session was clear and understandable.	How did the club members interact with the students?
		

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(An Autonomous Institution)

Puducherry - 605 107

Department of Electronics and Communication Engineering

Attendees List

Batch – 2023-2024

Year/ Semester/Sec	:	I / I / D
Name of the Club	:	Robotic and Automation
No of Students Present	:	54
No of Students Absent	:	02
Absentees Reg No	:	23UEC077, 23UEC107

S.No.	Reg No.	Name
1	23UEC009	AMSAVARTINI
2	23UEC011	ANANDHAKUMAR P
3	23UEC015	ANUSHA R
4	23UEC020	ARUL BALAJI
5	23UEC034	BHAVANI SHREE S
6	23UEC047	DHIVAGAR V
7	23UEC050	DIVYALAKSHMI K
8	23UEC051	DURVISHRAJA N
9	23UEC053	GAYATHRI D
10	23UEC056	GOKULRAM B
11	23UEC059	GOUTHAM KANNAA V
12	23UEC067	HARRESH P
13	23UEC070	HEMAPRIYAN J
14	23UEC071	HEMASHREE P
15	**23UEC077**	**JAYANARAYANAN G**
16	23UEC079	JESSENA ROSE S
17	23UEC084	KAMESHWARAN
18	23UEC085	KARAN N
19	23UEC097	KRISHNA KUMAR E S
20	23UEC098	KUGAN M
21	23UEC100	KUMARAN S
22	23UEC102	LAKSHMI PRIYA K
23	23UEC104	MADAN KUMAR G
24	**23UEC107**	**MADHUMITHA M**
25	23UEC112	MEERA ARAVINDHA J
26	23UEC114	MOHAMED AADHIL M
27	23UEC118	MOHAN RAJ R
28	23UEC119	MOHANAPRIYAN V
29	23UEC125	MUKKESH S
30	23UEC127	NAVEEN P

S.No.	Reg No.	Name
31	23UEC131	NAVEENKUMAR P
32	23UEC136	NIRMAL S M
33	23UEC138	NITHYA SREE
34	23UEC139	NITHYASRI A
35	23UEC147	PRAVEEN KUMAR B
36	23UEC149	PREETHI K
37	23UEC150	PREETHI V
38	23UEC151	PREETHIKA J
39	23UEC153	PRIYADHARSHINI M
40	23UEC161	RIJUL NAMBIAR P
41	23UEC166	RUPAWAANI K
42	23UEC194	SUDARSAN C
43	23UEC195	SUGITHAN D
44	23UEC196	SUJITH S
45	23UEC197	SURESH S
46	23UEC198	SURIYA S
47	23UEC199	SUTHARSANAN J
48	23UEC201	SWETHA J
49	23UEC205	THAYANITHY S
50	23UEC206	THEEMA S
51	23UEC211	VIBHA RINCY D
52	23UEC212	VIDYADARAN V
53	23UEC217	VISHNUDEVAN K
54	23UEC219	YAZHINI V
55	23UEC221	YOGESHWARAN B
56	23UEC224	YUVASHREE M

Gallery of Photographs

Activity 2 - Introduction to basic Robotics

Name of the Activity :**Introduction to basic Robotics**
Name of the Club : Robotics and Automation Club
Date / Day of Activity : 05/10/2023/ Thursday

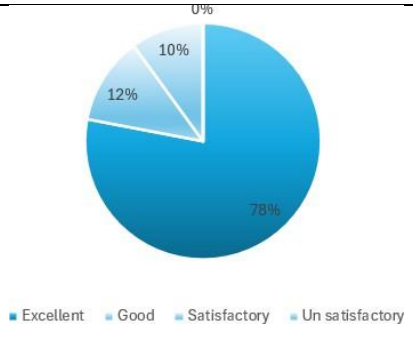
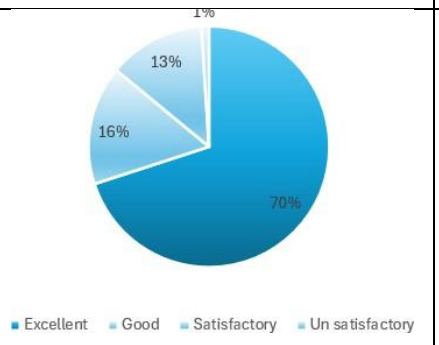
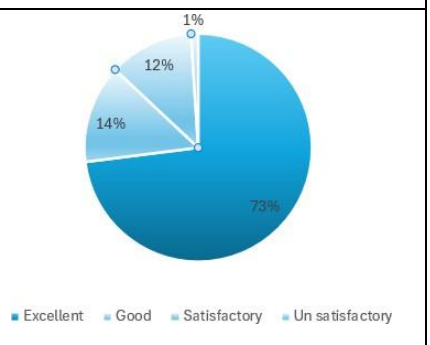
Activity executed for : I year /I Sem / D Sec

Robotics is the field of science and technology that deals with the design, construction, operation, and application of robots. A robot is a machine capable of performing tasks automatically or with minimal human intervention. Basic robotics focuses on understanding the fundamental principles, components, and working of robots, combining knowledge from electronics, mechanical systems, and computer programming.

Robots consist of essential components such as sensors, actuators, controllers, and power sources. Sensors allow robots to perceive and respond to their environment, actuators enable movement or action, and controllers process information to make decisions. Power sources, like batteries or electricity, provide the necessary energy for their operation. Understanding these components is the foundation of building functional and efficient robots.

Robotics has applications across industries, healthcare, defense, space exploration, and everyday life. Industrial robots assist in manufacturing and assembly, while healthcare robots help in surgeries and patient care. By studying basic robotics, students gain the skills to design, program, and operate robots, preparing them for more advanced robotics studies and real-world applications.

FEEDBACK

Was the class useful and relevant to the topic?	The session was clear and understandable.	How did the club members interact with the students?
		

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Department of Electronics and Communication Engineering

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Batch – 2023-2024

Year/ Semester/Sec	:	I / I / D
Name of the Club	:	Robotic and Automation
No of Students Present	:	55
No of Students Absent	:	01
Absentees Reg No	:	23UEC119

S.No.	Reg No.	Name
1	23UEC009	AMSAVARTINI
2	23UEC011	ANANDHAKUMAR P
3	23UEC015	ANUSHA R
4	23UEC020	ARUL BALAJI
5	23UEC034	BHAVANI SHREE S
6	23UEC047	DHIVAGAR V
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13	23UEC070	HEMAPRIYAN J
14	23UEC071	HEMASHREE P
15	23UEC077	JAYANARAYANAN G
16	23UEC079	JESSENA ROSE S
17	23UEC084	KAMESHWARAN
18	23UEC085	KARAN N
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20	23UEC098	KUGAN M
21	23UEC100	KUMARAN S
22	23UEC102	LAKSHMI PRIYA K
23	23UEC104	MADAN KUMAR G
24	23UEC107	MADHUMITHA M
25	23UEC112	MEERA ARAVINDHA J
26	23UEC114	MOHAMED AADHIL M
27	23UEC118	MOHAN RAJ R
28	**23UEC119**	**MOHANAPRIYAN V**
29	23UEC125	MUKKESH S
30	23UEC127	NAVEEN P

S.No.	Reg No.	Name
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35	23UEC147	PRAVEEN KUMAR B
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45	23UEC197	SURESH S
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50	23UEC206	THEEMA S
51	23UEC211	VIBHA RINCY D
52	23UEC212	VIDYADARAN V
53	23UEC217	VISHNUDEVAN K
54	23UEC219	YAZHINI V
55	23UEC221	YOGESHWARAN B
56	23UEC224	YUVASHREE M

Gallery of Photographs

Photo Gallery of the Club Activity

Activity 3 - Vision On Robotics

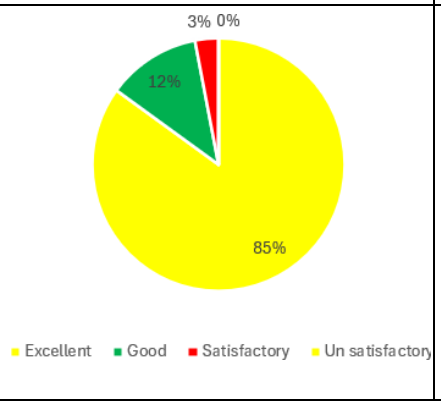
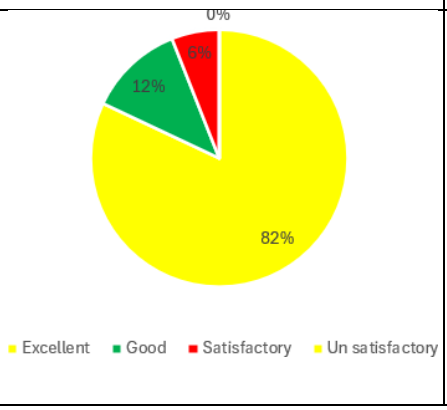
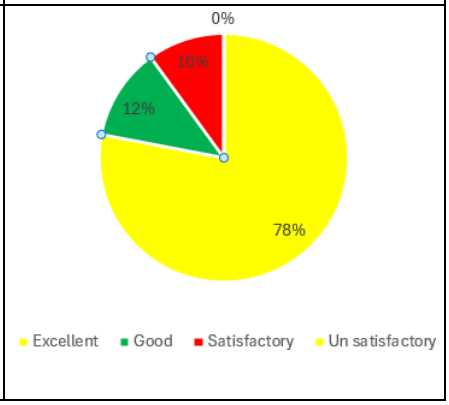
Name of the Activity	**:Vision On Robotics**
Name of the Club	: Robotics and Automation Club
Date / Day of Activity	:05/10/2023 Thursday
Activity executed for	: I year /I Sem /B

The vision of robotics is to create intelligent machines that help humans in daily life and work. Robots are designed to perform tasks efficiently, accurately, and safely. They use technologies like artificial intelligence, sensors, and automation. The goal is to reduce human effort and make complex tasks easier.

In industries, robots increase productivity and maintain quality standards. In healthcare, they assist in surgeries, patient care, and rehabilitation. Robots also explore dangerous or unreachable areas like space and deep seas. Smart robots can adapt to changing conditions and act autonomously.

Robotics aims for collaboration between humans and machines. They support household and service tasks, improving convenience. Continuous innovation is transforming work and life for the better. Ultimately, the vision is a future where humans and robots coexist and work together seamlessly.

FEEDBACK

Was the class useful and relevant to the topic?	The session was clear and understandable.	How did the club members interact with the students?
		

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Department of Electronics and Communication Engineering

Attendees List

Batch – 2023-2024

Year/ Semester/Sec	:	I / I / B
Name of the Club	:	Robotic and Automation
No of Students Present	:	55
No of Students Absent	:	03
Absentees Reg No	:	23UEC075, 23UEC142, 23UEC173

S.No.	Reg No.	Name
1	23UEC004	ABINAYA K
2	23UEC013	ANUGRAHA N C
3	23UEC014	ANUSH PRASATH A E
4	23UEC023	ARUN A
5	23UEC024	ARYANATH S
6	23UEC029	ASWIN V
7	23UEC030	BALACHANDRU A
8	23UEC032	BHARATH E
9	23UEC035	BHUVANESHWARI K
10	23UEC036	BUVANESHWAR M
11	23UEC037	CELESTINE AMALA S
12	23UEC041	DHANUSH G
13	23UEC042	DHARANIVEL R
14	23UEC045	DHAYANIDHI K
15	23UEC046	DHEENADHAYALAN S
16	23UEC055	GIRIPRASATH B
17	23UEC057	GOPINATH B
18	23UEC061	HARIHARAN G V
19	23UEC064	HARIHARAN S
20	23UEC065	HARISH V
21	23UEC066	HARISHA V
22	23UEC069	HEMANTH S
23	**23UEC075**	**JASWANTH M**
24	23UEC081	KALLA KARTHIK VEERENDRA SWAMY
25	23UEC083	KAMALI K
26	23UEC090	KEERTHANA R
27	23UEC091	KEERTHANA RAVI

S.No.	Reg No.	Name
28	23UEC095	KIRUTHIKA K
29	23UEC096	KISHOREKUMAR E
30	23UEC101	KUNAL R
31	23UEC103	LINGESH R
32	23UEC106	MADHUMITHA D
33	23UEC116	MOHAMED TARIQ A
34	23UEC121	MONISH D S
35	23UEC124	MUKESH P B
36	23UEC128	NAVEEN PRASAD B
37	23UEC129	NAVEEN R
38	23UEC133	NILAVAZHAHE V
39	23UEC137	NITHIYA P
40	**23UEC142**	**PAVITHRA K R**
41	23UEC145	PRADEEP V
42	23UEC154	RAGHAVI S
43	23UEC156	RAJESH M
44	23UEC157	RAKSHANDHA R B
45	23UEC169	SADHANADEVI S
46	23UEC171	SAKTHIVEL G
47	**23UEC173**	**SANDIYA M**
48	23UEC177	SELVA KUMARAN S
49	23UEC178	SESHA KUMAR R
50	23UEC179	SHAMEERA BEGAM A R
51	23UEC182	SHASHIDAR S
52	23UEC183	SIVADHARSHAN S
53	23UEC190	SRI AISWARIYA M
54	23UEC191	SRI RAGAVENDHRAN M
55	23UEC192	SRINIDHI S
56	23UEC202	TAMIZARASI S
57	23UEC207	VANTHANA B
58	23UEC218	YAZHINI G

Gallery of Photographs

Activity 4 - Vision of Robotics

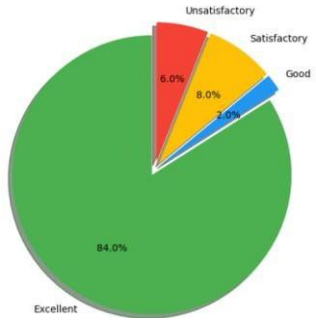
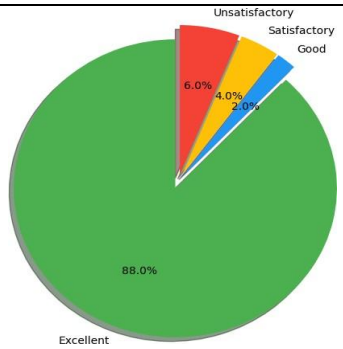
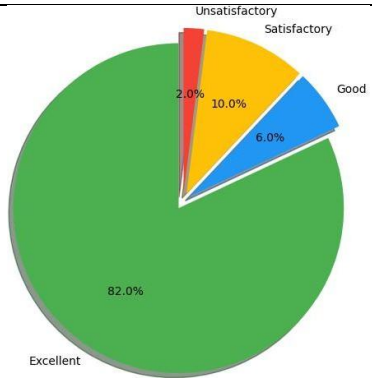
Name of the Activity	:**Vision of Robotics**
Name of the Club	: Robotics and Automation Club
Date / Day of Activity	:9/10/2023 Monday
Activity executed for	: I Year / I Sem / A Sec

The vision of robotics is to create intelligent machines that help humans in daily life and work. Robots are designed to perform tasks efficiently, accurately, and safely. They use technologies like artificial intelligence, sensors, and automation. The goal is to reduce human effort and make complex tasks easier.

In industries, robots increase productivity and maintain quality standards. In healthcare, they assist in surgeries, patient care, and rehabilitation. Robots also explore dangerous or unreachable areas like space and deep seas. Smart robots can adapt to changing conditions and act autonomously.

Robotics aims for collaboration between humans and machines. They support household and service tasks, improving convenience. Continuous innovation is transforming work and life for the better. Ultimately, the vision is a future where humans and robots coexist and work together seamlessly.

FEEDBACK

Was the class useful and relevant to the topic?	The session was clear and understandable.	How did the club members interact with the students?
		

SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

Puducherry - 605 107

Department of Electronics and Communication Engineering

Attendees List

Batch – 2023-2024

Year/ Semester/Sec	:	I / I / A
Name of the Club	:	Robotic and Automation
No of Students Present	:	55
No of Students Absent	:	Nil
Absentees Reg No	:	-

S.No.	Reg No.	Name
1	23UEC001	AANJOSE A
2	23UEC002	AARTHI A
3	23UEC003	ABDUL RAZAQ A
4	23UEC008	AKSHAYA V
5	23UEC010	ANANDHA KRISHNAN R
6	23UEC012	ANNAMALAI S
7	23UEC017	ARAVIND J
8	23UEC028	ASWIN MALGIYA P
9	23UEC031	BALAGANESAN V
10	23UEC033	BHARATHI V
11	23UEC038	DEV VISHWAA S
12	23UEC039	DEVADARSHAN B
13	23UEC040	DEVIPRIYA M
14	23UEC052	GAJALAKSHMI J
15	23UEC054	GIRIDHARAN N
16	23UEC060	GOWSHIHA V
17	23UEC062	HARIHARAN M
18	23UEC068	HARSHA VARDHINI R
19	23UEC072	HEMAVATHY M
20	23UEC074	JANANI G
21	23UEC078	JAYAPRAKASH G
22	23UEC080	KALAIVANI M
23	23UEC086	KARTHICK M
24	23UEC087	KARTHIKA G
25	23UEC088	KATHIR KRSHNA S
26	23UEC093	KEERTHIVASAN V
27	23UEC099	KUMARAN K

S.No.	Reg No.	Name
28	23UEC105	MADHUMITHA B
29	23UEC110	MANJINEESHWARI S
30	23UEC111	MATHUMITHA P
31	23UEC113	MENAGA S
32	23UEC115	MOHAMED SADIQ M
33	23UEC120	MONESH G
34	23UEC122	MUKESH M
35	23UEC123	MUKESH M
36	23UEC126	NANDHAKUMAR R
37	23UEC140	PARTHASARATHI C
38	23UEC141	PARTHIBAN C
39	23UEC148	PREETHA D
40	23UEC155	RAGUL S
41	23UEC162	RISHMA PARVEEN S
42	23UEC164	ROHAN S
43	23UEC165	ROHITH KUMAR S
44	23UEC167	RUTHRA PRABU S
45	23UEC170	SAIGANESH G
46	23UEC172	SANDHYA I
47	23UEC174	SANJAY KUMAR S
48	23UEC175	SANJAY P
49	23UEC188	SREE DEVI D
50	23UEC203	TAMIZH NILAVAN A
51	23UEC209	VASUNDARAA J N
52	23UEC210	VETRISELVAN S
53	23UEC214	VIMALRAJ K K
54	23UEC215	VINDHIYA M
55	23UEC220	YOGA PRASAD A

Gallery of Photographs

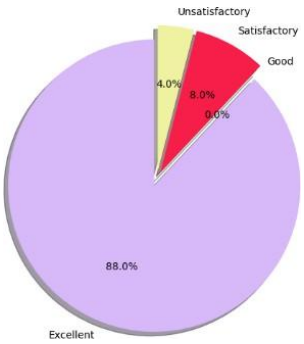
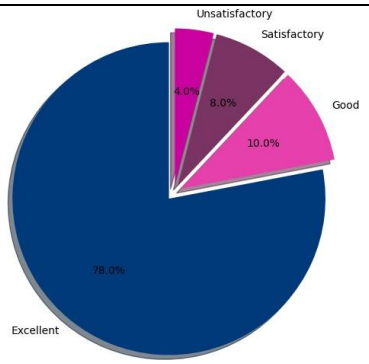
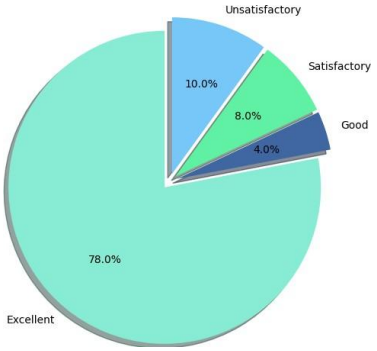
Activity 5 - Designing of Bot

Name of the Activity :**Designing of Bot**
Name of the Club : Robotics and Automation Club
Date / Day of Activity :19/10/2023 Thursday
Activity executed for : I Year / I Sem / B sec

Designing a bot involves creating a robot that can perform tasks efficiently and accurately. Modern bots combine mechanical, electrical, and programming knowledge for smooth operation. A typical bot consists of a chassis for structure, motors and wheels for movement, sensors to detect the environment, a microcontroller to process data, a power supply, and software/programming for control. The sensors detect obstacles, paths, or environmental changes and send data to the controller. The controller processes the information and directs the motors for precise movement.

The design focuses on stability, speed, compactness, and responsiveness. Proper design ensures minimal errors and efficient task execution. Bots are used in industries, healthcare, exploration, and educational projects. Designing bots helps students learn robotics, programming, and problem-solving. It encourages creativity, teamwork, and practical application. A well-designed bot is reliable, efficient, and ready for real-world tasks.

FEEDBACK

Was the class useful and relevant to the topic?	The session was clear and understandable.	How did the club members interact with the students?
		

SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

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Department of Electronics and Communication Engineering

Attendees List

Batch – 2023-2024

Year/ Semester/Sec	:	I / I / B
Name of the Club	:	Robotic and Automation
No of Students Present	:	56
No of Students Absent	:	02
Absentees Reg No	:	23UEC065, 23UEC171

S.No.	Reg No.	Name
1	23UEC004	ABINAYA K
2	23UEC013	ANUGRAHA N C
3	23UEC014	ANUSH PRASATH A E
4	23UEC023	ARUN A
5	23UEC024	ARYANATH S
6	23UEC029	ASWIN V
7	23UEC030	BALACHANDRU A
8	23UEC032	BHARATH E
9	23UEC035	BHUVANESHWARI K
10	23UEC036	BUVANESHWAR M
11	23UEC037	CELESTINE AMALA S
12	23UEC041	DHANUSH G
13	23UEC042	DHARANIVEL R
14	23UEC045	DHAYANIDHI K
15	23UEC046	DHEENADHAYALAN S
16	23UEC055	GIRIPRASATH B
17	23UEC057	GOPINATH B
18	23UEC061	HARIHARAN G V
19	23UEC064	HARIHARAN S
20	**23UEC065**	**HARISH V**
21	23UEC066	HARISHA V
22	23UEC069	HEMANTH S
23	23UEC075	JASWANTH M
24	23UEC081	KALLA KARTHIK VEERENDRA SWAMY
25	23UEC083	KAMALI K
26	23UEC090	KEERTHANA R
27	23UEC091	KEERTHANA RAVI

S.No.	Reg No.	Name
28	23UEC095	KIRUTHIKA K
29	23UEC096	KISHOREKUMAR E
30	23UEC101	KUNAL R
31	23UEC103	LINGESH R
32	23UEC106	MADHUMITHA D
33	23UEC116	MOHAMED TARIQ A
34	23UEC121	MONISH D S
35	23UEC124	MUKESH P B
36	23UEC128	NAVEEN PRASAD B
37	23UEC129	NAVEEN R
38	23UEC133	NILAVAZHAHE V
39	23UEC137	NITHIYA P
40	23UEC142	PAVITHRA K R
41	23UEC145	PRADEEP V
42	23UEC154	RAGHAVI S
43	23UEC156	RAJESH M
44	23UEC157	RAKSHANDHA R B
45	23UEC169	SADHANADEVI S
46	**23UEC171**	**SAKTHIVEL G**
47	23UEC173	SANDIYA M
48	23UEC177	SELVA KUMARAN S
49	23UEC178	SESHA KUMAR R
50	23UEC179	SHAMEERA BEGAM A R
51	23UEC182	SHASHIDAR S
52	23UEC183	SIVADHARSHAN S
53	23UEC190	SRI AISWARIYA M
54	23UEC191	SRI RAGAVENDHRAN M
55	23UEC192	SRINIDHI S
56	23UEC202	TAMIZARASI S
57	23UEC207	VANTHANA B
58	23UEC218	YAZHINI G

Gallery of Photographs

Activity 6 - Designing of Bot for Robo Race

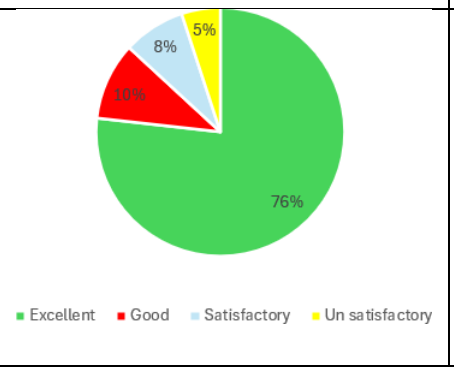
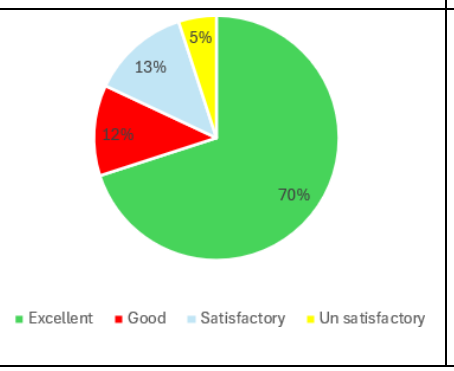
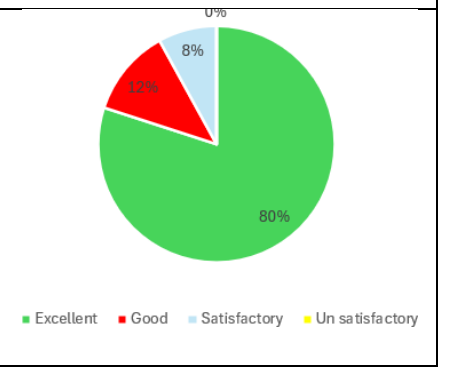
Name of the Activity	:**Designing of Bot for Robo Race**
Name of the Club	: Robotics and Automation Club
Date / Day of Activity	: 28/10/2023 Saturday
Activity executed by	:III Year / V Sem / B sec

Designing a bot for a Robo Race involves creating a robot that can complete a track or task faster than competitors. The goal is to combine speed, accuracy, and stability while handling turns and obstacles efficiently. Modern bots use advanced technologies like sensors, microcontrollers, and programming algorithms. The essential components include a chassis or frame, motors and wheels, sensors, a microcontroller, a power supply, and software for control.

The chassis provides structure, while motors and wheels enable movement. Sensors detect lines, obstacles, or environmental changes, sending data to the controller. The microcontroller processes this data to adjust speed and direction in real time. Proper programming ensures smooth navigation and minimal errors during the race. Design considerations include compactness, stability, speed, and responsiveness.

Testing and optimization are important to improve performance. Robo Race bots help students understand practical robotics, control systems, and sensor integration. The activity encourages teamwork, creativity, and problem-solving skills. It also enhances programming and automation knowledge. Designing bots for competitions prepares students for real-world robotics challenges. Ultimately, Robo Race projects make learning interactive, practical, and engaging for students.

FEEDBACK

Was the class useful and relevant to the topic?	The session was clear and understandable.	How did the club members interact with the students?
		

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Department of Electronics and Communication Engineering

Attendees List

Batch – 2023-2024

Year/ Semester/Sec	:	I / I / B
Name of the Club	:	Robotic and Automation
No of Students Present	:	58
No of Students Absent	:	Nil
Absentees Reg No	:	-

S.No.	Reg No.	Name
1	23UEC004	ABINAYA K
2	23UEC013	ANUGRAHA N C
3	23UEC014	ANUSH PRASATH A E
4	23UEC023	ARUN A
5	23UEC024	ARYANATH S
6	23UEC029	ASWIN V
7	23UEC030	BALACHANDRU A
8	23UEC032	BHARATH E
9	23UEC035	BHUVANESHWARI K
10	23UEC036	BUVANESHWAR M
11	23UEC037	CELESTINE AMALA S
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13	23UEC042	DHARANIVEL R
14	23UEC045	DHAYANIDHI K
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17	23UEC057	GOPINATH B
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19	23UEC064	HARIHARAN S
20	23UEC065	HARISH V
21	23UEC066	HARISHA V
22	23UEC069	HEMANTH S
23	23UEC075	JASWANTH M
24	23UEC081	KALLA KARTHIK VEERENDRA SWAMY
25	23UEC083	KAMALI K
26	23UEC090	KEERTHANA R
27	23UEC091	KEERTHANA RAVI

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31	23UEC103	LINGESH R
32	23UEC106	MADHUMITHA D
33	23UEC116	MOHAMED TARIQ A
34	23UEC121	MONISH D S
35	23UEC124	MUKESH P B
36	23UEC128	NAVEEN PRASAD B
37	23UEC129	NAVEEN R
38	23UEC133	NILAVAZHAHE V
39	23UEC137	NITHIYA P
40	23UEC142	PAVITHRA K R
41	23UEC145	PRADEEP V
42	23UEC154	RAGHAVI S
43	23UEC156	RAJESH M
44	23UEC157	RAKSHANDHA R B
45	23UEC169	SADHANADEVI S
46	23UEC171	SAKTHIVEL G
47	23UEC173	SANDIYA M
48	23UEC177	SELVA KUMARAN S
49	23UEC178	SESHA KUMAR R
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51	23UEC182	SHASHIDAR S
52	23UEC183	SIVADHARSHAN S
53	23UEC190	SRI AISWARIYA M
54	23UEC191	SRI RAGAVENDHRAN M
55	23UEC192	SRINIDHI S
56	23UEC202	TAMIZARASI S
57	23UEC207	VANTHANA B
58	23UEC218	YAZHINI G

Gallery of Photographs

Members delivering about the Bot Components	Members explaining about Construction
Members explaining about Gameplay	Interaction between the members and students

Activity 7 - Modern Designing of Bot

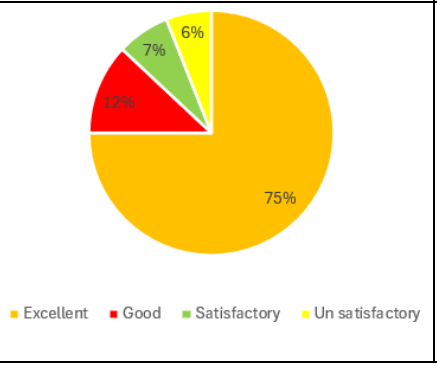
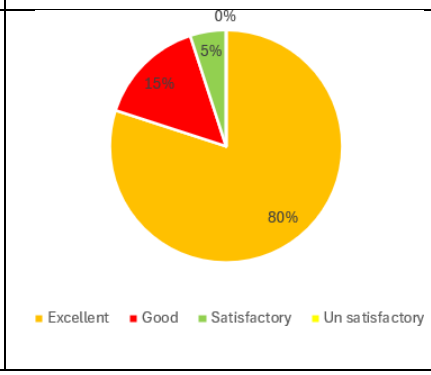
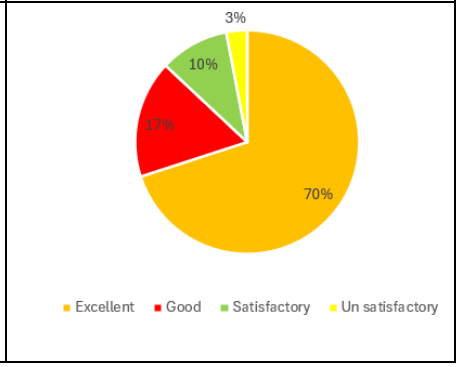
Name of the Activity	:**Modern Designing of Bot**
Name of the Club	: Robotics and Automation Club
Date / Day of Activity	:**06/11/2023**Monday.
Activity executed (Yr. /Sem/ Sec)	: I year /I Sem /C

Modern designing of a bot focuses on creating intelligent and efficient robots that can perform tasks autonomously. Unlike traditional robots, modern bots integrate advanced technologies such as sensors, microcontrollers, artificial intelligence, and machine learning. The design emphasizes precision, speed, safety, and energy efficiency. A modern bot consists of essential components including a chassis or frame, motors and actuators, sensors, a controller or microcontroller, power supply, and software for programming and control.

The chassis provides structural support, while motors and actuators enable movement and manipulation of objects. Sensors detect obstacles, light, lines, temperature, and other environmental factors. The controller processes sensor inputs and decides the bot's actions based on programmed algorithms. Modern bots can adapt to changing conditions and learn from their environment using AI and machine learning techniques.

They may also include wireless communication and vision systems for enhanced functionality. Applications of modern bots are widespread, including industrial automation, healthcare, exploration, surveillance, and service tasks. In industries, they assist in assembly lines, packaging, and quality control. In healthcare, they support surgeries, patient care, and rehabilitation. Modern bots reduce human effort, improve productivity, and ensure safety in hazardous environments.

FEEDBACK

Was the class useful and relevant to the topic?	The session was clear and understandable.	How did the club members interact with the students?
		

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Puducherry - 605 107

Department of Electronics and Communication Engineering

Attendees List

Batch – 2023-2024

Year/ Semester/Sec	:	I / I / C
Name of the Club	:	Robotic and Automation
No of Students Present	:	54
No of Students Absent	:	01
Absentees Reg No	:	23UEC135

S.No.	Reg No.	Name
1	23ECL005	VASANTHRA M
2	23UEC005	ABIRUBA S
3	23UEC006	AISHWARYA G
4	23UEC007	AKSHAYA A
5	23UEC016	ANUSHIKA S
6	23UEC018	ARAVINDAN A
7	23UEC019	ARINI R
8	23UEC021	ARUL M
9	23UEC022	ARULVELAN A
10	23UEC025	ASHWATHAMA V
11	23UEC026	ASHWIIN P
12	23UEC027	ASHWIN PRADEEP S
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17	23UEC058	GOPPIKA L
18	23UEC063	HARIHARAN S
19	23UEC073	INIYA G
20	23UEC076	JAWAHAR RAJ V
21	23UEC082	KAMALESHWAR N
22	23UEC089	KAVITAANJALI V
23	23UEC092	KEERTHANA T
24	23UEC094	KIRUSHOTH K
25	23UEC108	MAHESH M
26	23UEC109	MANIKANDAN R
27	23UEC117	MOHAMMED JAVEED S
28	23UEC130	NAVEEN SURYA S
29	23UEC132	NETHESHWARAN S
30	**23UEC135**	**NIRANJANI P**

S.No.	Reg No.	Name
31	23UEC143	POOJITHA S
32	23UEC144	POORNIMA A
33	23UEC146	PRASANNAH J
34	23UEC152	PRIYADHARSHINI G
35	23UEC158	RAMYA S
36	23UEC159	RAVINDAR V
37	23UEC160	RESHMA M
38	23UEC163	RITHIK SANDRON V
39	23UEC168	SACHINRAJ R
40	23UEC176	SANTHOSH S
41	23UEC180	SHARAN G
42	23UEC181	SHARMATHA SREE P
43	23UEC184	SIVANESAN B
44	23UEC185	SIVASUBRAMANIAN S
45	23UEC186	SNEGA A
46	23UEC187	SOMESH KOUMAR B
47	23UEC189	SREEMAN D
48	23UEC193	SRIRAM S
49	23UEC200	SWATHI D
50	23UEC204	THARINI G
51	23UEC208	VASANTH RAJ K
52	23UEC213	VIKNESH R
53	23UEC216	VISHAL S
54	23UEC222	YUVAASREE V
55	23UEC223	YUVADHARSHINI T

Gallery of Photographs

Members delivering about the Bot Components	Members explaining about Construction
Members explaining about Gameplay	Interaction between the members and students

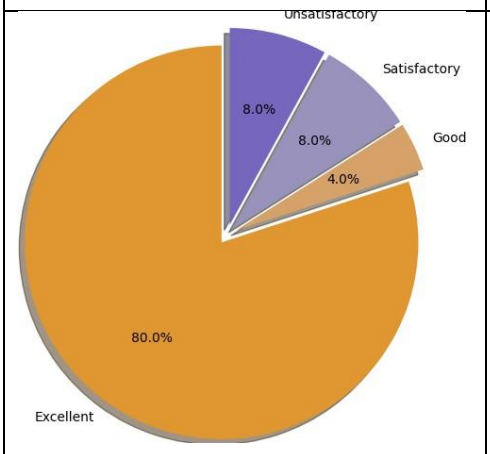
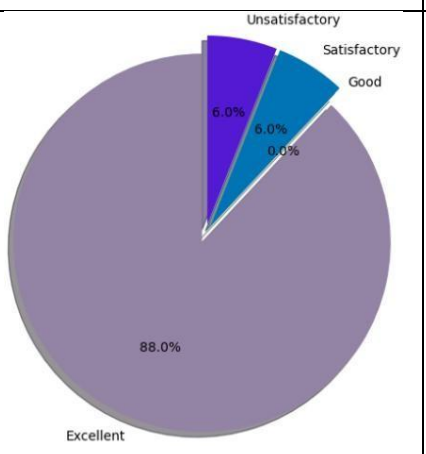
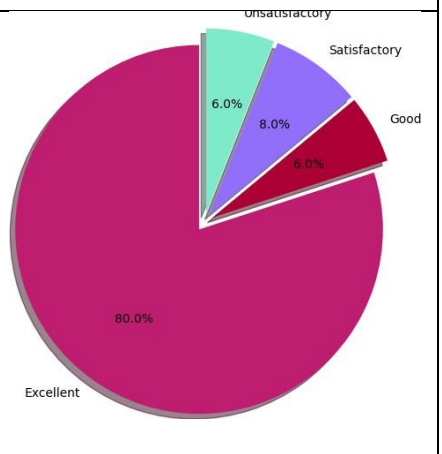
Activity 8 - Modern Designing of Bot and Race

Name of the Activity	:**Modern Designing of Bot and Race**
Name of the Club	: Robotics and Automation Club
Date / Day of Activity	:**16/12/2023**Saturday.
Activity executed (Yr. /Sem/ Sec)	: I year /I Sem / A&C

Modern designing of a bot focuses on creating intelligent robots that can perform tasks autonomously. Modern bots use technologies like sensors, microcontrollers, AI, and programming for efficient operation. A bot typically has a chassis, motors, actuators, sensors, a controller, power supply, and software for control. Sensors detect the environment, while the controller processes data to guide the bot's actions. Modern bots can adapt to changing conditions and collaborate with humans.

A bot race is a competition where robots complete a track or task faster than others. Common types include line follower bots, obstacle-avoiding bots, and speed bots. Bot races test design, programming, speed, and accuracy. Students optimize motors, sensors, and algorithms for better performance. The activity encourages teamwork, creativity, and problem-solving skills. Modern designing combined with bot races provides practical knowledge of robotics. It also prepares students for real-world applications and innovation in automation.

FEEDBACK

Was the class useful and relevant to the topic?	The session was clear and understandable.	How did the club members interact with the students?
		

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Batch – 2023-2024

Year/ Semester/Sec	:	I / I / A
Name of the Club	:	Robotic and Automation
No of Students Present	:	55
No of Students Absent	:	Nil
Absentees Reg No	:	-

S.No.	Reg No.	Name
1	23UEC001	AANJOSE A
2	23UEC002	AARTHI A
3	23UEC003	ABDUL RAZAQ A
4	23UEC008	AKSHAYA V
5	23UEC010	ANANDHA KRISHNAN R
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16	23UEC060	GOWSHIHA V
17	23UEC062	HARIHARAN M
18	23UEC068	HARSHA VARDHINI R
19	23UEC072	HEMAVATHY M
20	23UEC074	JANANI G
21	23UEC078	JAYAPRAKASH G
22	23UEC080	KALAIVANI M
23	23UEC086	KARTHICK M
24	23UEC087	KARTHIKA G
25	23UEC088	KATHIR KRSHNA S
26	23UEC093	KEERTHIVASAN V
27	23UEC099	KUMARAN K

S.No.	Reg No.	Name
28	23UEC105	MADHUMITHA B
29	23UEC110	MANJINEESHWARI S
30	23UEC111	MATHUMITHA P
31	23UEC113	MENAGA S
32	23UEC115	MOHAMED SADIQ M
33	23UEC120	MONESH G
34	23UEC122	MUKESH M
35	23UEC123	MUKESH M
36	23UEC126	NANDHAKUMAR R
37	23UEC140	PARTHASARATHI C
38	23UEC141	PARTHIBAN C
39	23UEC148	PREETHA D
40	23UEC155	RAGUL S
41	23UEC162	RISHMA PARVEEN S
42	23UEC164	ROHAN S
43	23UEC165	ROHITH KUMAR S
44	23UEC167	RUTHRA PRABU S
45	23UEC170	SAIGANESH G
46	23UEC172	SANDHYA I
47	23UEC174	SANJAY KUMAR S
48	23UEC175	SANJAY P
49	23UEC188	SREE DEVI D
50	23UEC203	TAMIZH NILAVAN A
51	23UEC209	VASUNDARAA J N
52	23UEC210	VETRISELVAN S
53	23UEC214	VIMALRAJ K K
54	23UEC215	VINDHIYA M
55	23UEC220	YOGA PRASAD A

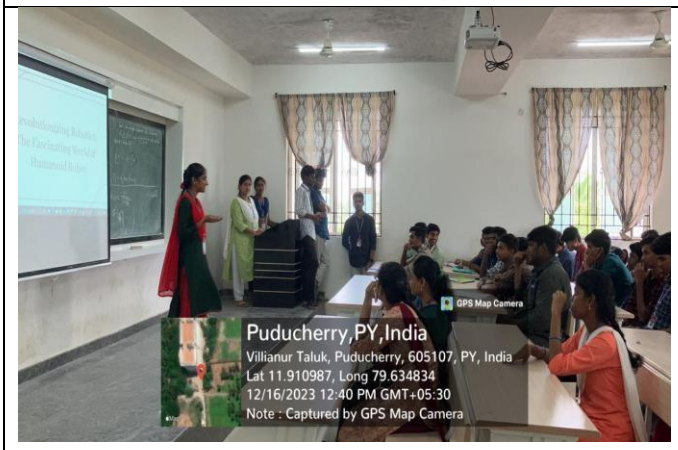
Year/ Semester/Sec	**:**	I / I / C
Name of the Club	**:**	Robotic and Automation
No of Students Present	**:**	53
No of Students Absent	**:**	02
Absentees Reg No	**:**	23UEC200, 23UEC222

S.No.	Reg No.	Name
1	23ECL005	VASANTHRA M
2	23UEC005	ABIRUBA S
3	23UEC006	AISHWARYA G
4	23UEC007	AKSHAYA A
5	23UEC016	ANUSHIKA S

S.No.	Reg No.	Name
6	23UEC018	ARAVINDAN A
7	23UEC019	ARINI R
8	23UEC021	ARUL M
9	23UEC022	ARULVELAN A
10	23UEC025	ASHWATHAMA V
11	23UEC026	ASHWIIN P
12	23UEC027	ASHWIN PRADEEP S
13	23UEC043	DHARSHHAN M K
14	23UEC044	DHARSHITHA R
15	23UEC048	DHIVAKAR V
16	23UEC049	DHIVYA DHARSHINI D
17	23UEC058	GOPPIKA L
18	23UEC063	HARIHARAN S
19	23UEC073	INIYA G
20	23UEC076	JAWAHAR RAJ V
21	23UEC082	KAMALESHWAR N
22	23UEC089	KAVITAANJALI V
23	23UEC092	KEERTHANA T
24	23UEC094	KIRUSHOTH K
25	23UEC108	MAHESH M
26	23UEC109	MANIKANDAN R
27	23UEC117	MOHAMMED JAVEED S
28	23UEC130	NAVEEN SURYA S
29	23UEC132	NETHESHWARAN S
30	23UEC135	NIRANJANI P
31	23UEC143	POOJITHA S
32	23UEC144	POORNIMA A
33	23UEC146	PRASANNAH J
34	23UEC152	PRIYADHARSHINI G
35	23UEC158	RAMYA S
36	23UEC159	RAVINDAR V
37	23UEC160	RESHMA M
38	23UEC163	RITHIK SANDRON V
39	23UEC168	SACHINRAJ R
40	23UEC176	SANTHOSH S
41	23UEC180	SHARAN G
42	23UEC181	SHARMATHA SREE P
43	23UEC184	SIVANESAN B
44	23UEC185	SIVASUBRAMANIAN S
45	23UEC186	SNEGA A
46	23UEC187	SOMESH KOUMAR B
47	23UEC189	SREEMAN D
48	23UEC193	SRIRAM S
49	**23UEC200**	**SWATHI D**
50	23UEC204	THARINI G
51	23UEC208	VASANTH RAJ K

S.No.	Reg No.	Name
52	23UEC213	VIKNESH R
53	23UEC216	VISHAL S
54	**23UEC222**	**YUVAASREE V**
55	23UEC223	YUVADHARSHINI T

Gallery of Photographs



Activity 9 - Modern Designing of Bot

Name of the Activity : Modern Designing of Bot

Name of the Club : Robotics and Automation Club

Date / Day of Activity : 24/02/2024 Saturday

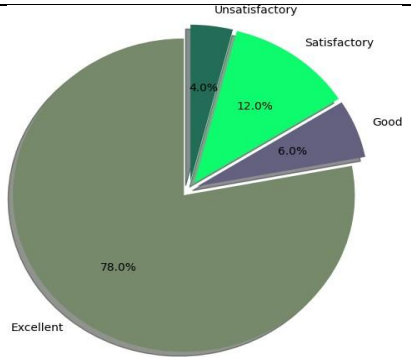
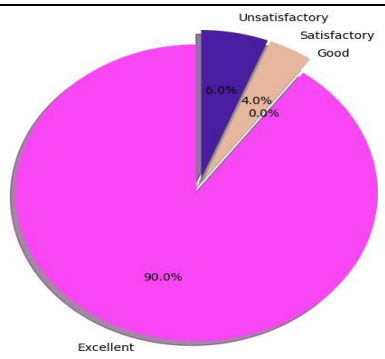
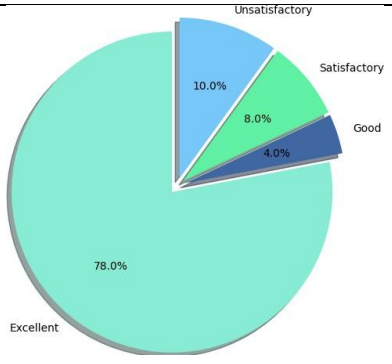
Activity executed (Yr. /Sem/ Sec) : I Year / II Sem / C sec

Modern designing of a bot focuses on creating intelligent and efficient robots that can perform tasks autonomously. Unlike traditional robots, modern bots integrate advanced technologies such as sensors, microcontrollers, artificial intelligence, and machine learning. The design emphasizes precision, speed, safety, and energy efficiency. A modern bot consists of essential components including a chassis or frame, motors and actuators, sensors, a controller or microcontroller, power supply, and software for programming and control.

The chassis provides structural support, while motors and actuators enable movement and manipulation of objects. Sensors detect obstacles, light, lines, temperature, and other environmental factors. The controller processes sensor inputs and decides the bot's actions based on programmed algorithms. Modern bots can adapt to changing conditions and learn from their environment using AI and machine learning techniques.

They may also include wireless communication and vision systems for enhanced functionality. Applications of modern bots are widespread, including industrial automation, healthcare, exploration, surveillance, and service tasks. In industries, they assist in assembly lines, packaging, and quality control. In healthcare, they support surgeries, patient care, and rehabilitation. Modern bots reduce human effort, improve productivity, and ensure safety in hazardous environments.

FEEDBACK

Was the class useful and relevant to the topic?	The session was clear and understandable.	How did the club members interact with the students?
		

SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

Puducherry - 605 107

Department of Electronics and Communication Engineering

Attendees List

Batch – 2023-2024

Year/ Semester/Sec	:	I / I / C
Name of the Club	:	Robotic and Automation
No of Students Present	:	55
No of Students Absent	:	Nil
Absentees Reg No	:	-

S.No.	Reg No.	Name
1	23ECL005	VASANTHRA M
2	23UEC005	ABIRUBA S
3	23UEC006	AISHWARYA G
4	23UEC007	AKSHAYA A
5	23UEC016	ANUSHIKA S
6	23UEC018	ARAVINDAN A
7	23UEC019	ARINI R
8	23UEC021	ARUL M
9	23UEC022	ARULVELAN A
10	23UEC025	ASHWATHAMA V
11	23UEC026	ASHWIIN P
12	23UEC027	ASHWIN PRADEEP S
13	23UEC043	DHARSHHAN M K
14	23UEC044	DHARSHITHA R
15	23UEC048	DHIVAKAR V
16	23UEC049	DHIVYA DHARSHINI D
17	23UEC058	GOPPIKA L
18	23UEC063	HARIHARAN S
19	23UEC073	INIYA G
20	23UEC076	JAWAHAR RAJ V
21	23UEC082	KAMALESHWAR N
22	23UEC089	KAVITAANJALI V
23	23UEC092	KEERTHANA T
24	23UEC094	KIRUSHOTH K
25	23UEC108	MAHESH M
26	23UEC109	MANIKANDAN R
27	23UEC117	MOHAMMED JAVEED S
28	23UEC130	NAVEEN SURYA S
29	23UEC132	NETHESHWARAN S
30	23UEC135	NIRANJANI P

S.No.	Reg No.	Name
31	23UEC143	POOJITHA S
32	23UEC144	POORNIMA A
33	23UEC146	PRASANNAH J
34	23UEC152	PRIYADHARSHINI G
35	23UEC158	RAMYA S
36	23UEC159	RAVINDAR V
37	23UEC160	RESHMA M
38	23UEC163	RITHIK SANDRON V
39	23UEC168	SACHINRAJ R
40	23UEC176	SANTHOSH S
41	23UEC180	SHARAN G
42	23UEC181	SHARMATHA SREE P
43	23UEC184	SIVANESAN B
44	23UEC185	SIVASUBRAMANIAN S
45	23UEC186	SNEGA A
46	23UEC187	SOMESH KOUMAR B
47	23UEC189	SREEMAN D
48	23UEC193	SRIRAM S
49	23UEC200	SWATHI D
50	23UEC204	THARINI G
51	23UEC208	VASANTH RAJ K
52	23UEC213	VIKNESH R
53	23UEC216	VISHAL S
54	23UEC222	YUVAASREE V
55	23UEC223	YUVADHARSHINI T

Gallery of Photographs

Members delivering about the Basics of Robotics	Members explaining about various robotics events
Members explaining what are the difficulties faced during a robotics competition	Interaction between the members and students

Activity 10 - Vision On Robotics

Name of the Activity : Vision On Robotics

Name of the Club : Robotics and Automation Club

Date / Day of Activity : 02/03/2024Saturday

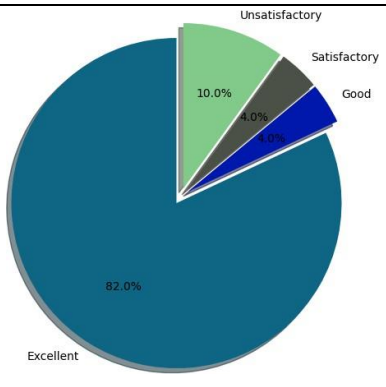
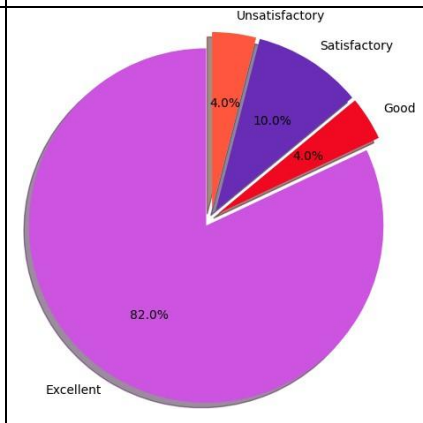
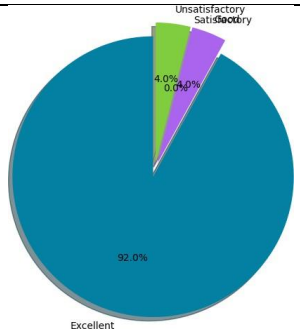
Activity executed for : I year /IISem /D

The vision of robotics is to create intelligent machines that help humans in daily life and work. Robots are designed to perform tasks efficiently, accurately, and safely. They use technologies like artificial intelligence, sensors, and automation. The goal is to reduce human effort and make complex tasks easier.

In industries, robots increase productivity and maintain quality standards. In healthcare, they assist in surgeries, patient care, and rehabilitation. Robots also explore dangerous or unreachable areas like space and deep seas. Smart robots can adapt to changing conditions and act autonomously.

Robotics aims for collaboration between humans and machines. They support household and service tasks, improving convenience. Continuous innovation is transforming work and life for the better. Ultimately, the vision is a future where humans and robots coexist and work together seamlessly.

FEEDBACK

Was the class useful and relevant to the topic?	The session was clear and understandable.	How did the club members interact with the students?
		

SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

Puducherry - 605 107

Department of Electronics and Communication Engineering

Attendees List

Batch – 2023-2024

Year/ Semester/Sec	:	I / I / D
Name of the Club	:	Robotic and Automation
No of Students Present	:	55
No of Students Absent	:	01
Absentees Reg No	:	23UEC112

S.No.	Reg No.	Name
1	23UEC009	AMSAVARTINI
2	23UEC011	ANANDHAKUMAR P
3	23UEC015	ANUSHA R
4	23UEC020	ARUL BALAJI
5	23UEC034	BHAVANI SHREE S
6	23UEC047	DHIVAGAR V
7	23UEC050	DIVYALAKSHMI K
8	23UEC051	DURVISHRAJA N
9	23UEC053	GAYATHRI D
10	23UEC056	GOKULRAM B
11	23UEC059	GOUTHAM KANNAA V
12	23UEC067	HARRESH P
13	23UEC070	HEMAPRIYAN J
14	23UEC071	HEMASHREE P
15	23UEC077	JAYANARAYANAN G
16	23UEC079	JESSENA ROSE S
17	23UEC084	KAMESHWARAN
18	23UEC085	KARAN N
19	23UEC097	KRISHNA KUMAR E S
20	23UEC098	KUGAN M
21	23UEC100	KUMARAN S
22	23UEC102	LAKSHMI PRIYA K
23	23UEC104	MADAN KUMAR G
24	23UEC107	MADHUMITHA M
25	**23UEC112**	**MEERA ARAVINDHA J**
26	23UEC114	MOHAMED AADHIL M
27	23UEC118	MOHAN RAJ R
28	23UEC119	MOHANAPRIYAN V
29	23UEC125	MUKKESH S
30	23UEC127	NAVEEN P

31	23UEC131	NAVEENKUMAR P
32	23UEC136	NIRMAL S M
33	23UEC138	NITHYA SREE
34	23UEC139	NITHYASRI A
35	23UEC147	PRAVEEN KUMAR B
36	23UEC149	PREETHI K
37	23UEC150	PREETHI V
38	23UEC151	PREETHIKA J
39	23UEC153	PRIYADHARSHINI M
40	23UEC161	RIJUL NAMBIAR P
41	23UEC166	RUPAWAANI K
42	23UEC194	SUDARSAN C
43	23UEC195	SUGITHAN D
44	23UEC196	SUJITH S
45	23UEC197	SURESH S
46	23UEC198	SURIYA S
47	23UEC199	SUTHARSANAN J
48	23UEC201	SWETHA J
49	23UEC205	THAYANITHY S
50	23UEC206	THEEMA S
51	23UEC211	VIBHA RINCY D
52	23UEC212	VIDYADARAN V
53	23UEC217	VISHNUDEVAN K
54	23UEC219	YAZHINI V
55	23UEC221	YOGESHWARAN B
56	23UEC224	YUVASHREE M

Gallery of Photographs

Members explaining what are the difficulties faced during a robotics competition	Interaction between the members and students

Activity 11 - Vision On Robotics

Name of the Activity : Vision On Robotics

Name of the Club : Robotics and Automation Club

Date / Day of Activity : 02/03/2024Saturday

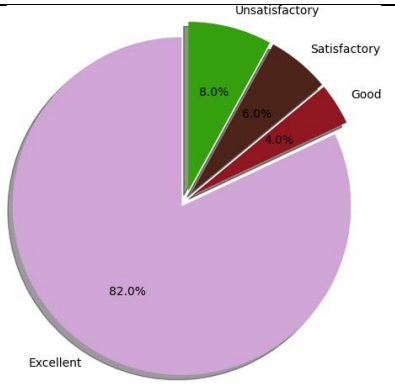
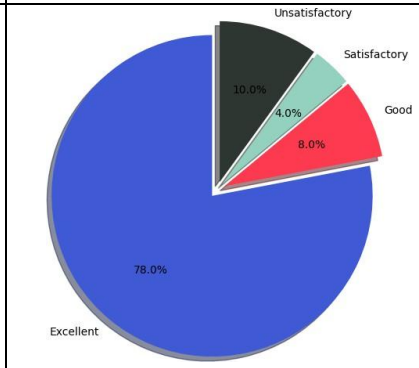
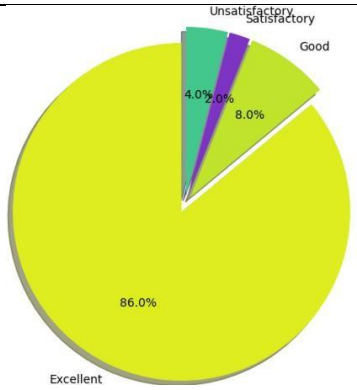
Activity executed (Yr. /Sem/ Sec) : I year /IISem /C

The vision of robotics is to create intelligent machines that help humans in daily life and work. Robots are designed to perform tasks efficiently, accurately, and safely. They use technologies like artificial intelligence, sensors, and automation. The goal is to reduce human effort and make complex tasks easier.

In industries, robots increase productivity and maintain quality standards. In healthcare, they assist in surgeries, patient care, and rehabilitation. Robots also explore dangerous or unreachable areas like space and deep seas. Smart robots can adapt to changing conditions and act autonomously.

Robotics aims for collaboration between humans and machines. They support household and service tasks, improving convenience. Continuous innovation is transforming work and life for the better. Ultimately, the vision is a future where humans and robots coexist and work together seamlessly.

FEEDBACK

Was the class useful and relevant to the topic?	The session was clear and understandable.	How did the club members interact with the students?
		

SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

Puducherry - 605 107

Department of Electronics and Communication Engineering

Attendees List

Batch – 2023-2024

Year/ Semester/Sec	:	I / I / C
Name of the Club	:	Robotic and Automation
No of Students Present	:	55
No of Students Absent	:	03
Absentees Reg No	:	23UEC048, 23UEC132, 23UEC186

S.No.	Reg No.	Name
1	23ECL005	VASANTHRA M
2	23UEC005	ABIRUBA S
3	23UEC006	AISHWARYA G
4	23UEC007	AKSHAYA A
5	23UEC016	ANUSHIKA S
6	23UEC018	ARAVINDAN A
7	23UEC019	ARINI R
8	23UEC021	ARUL M
9	23UEC022	ARULVELAN A
10	23UEC025	ASHWATHAMA V
11	23UEC026	ASHWIIN P
12	23UEC027	ASHWIN PRADEEP S
13	23UEC043	DHARSHHAN M K
14	23UEC044	DHARSHITHA R
15	**23UEC048**	**DHIVAKAR V**
16	23UEC049	DHIVYA DHARSHINI D
17	23UEC058	GOPPIKA L
18	23UEC063	HARIHARAN S
19	23UEC073	INIYA G
20	23UEC076	JAWAHAR RAJ V
21	23UEC082	KAMALESHWAR N
22	23UEC089	KAVITAANJALI V
23	23UEC092	KEERTHANA T
24	23UEC094	KIRUSHOTH K
25	23UEC108	MAHESH M
26	23UEC109	MANIKANDAN R
27	23UEC117	MOHAMMED JAVEED S
28	23UEC130	NAVEEN SURYA S
29	**23UEC132**	**NETHESHWARAN S**

S.No.	Reg No.	Name
30	23UEC135	NIRANJANI P
31	23UEC143	POOJITHA S
32	23UEC144	POORNIMA A
33	23UEC146	PRASANNAH J
34	23UEC152	PRIYADHARSHINI G
35	23UEC158	RAMYA S
36	23UEC159	RAVINDAR V
37	23UEC160	RESHMA M
38	23UEC163	RITHIK SANDRON V
39	23UEC168	SACHINRAJ R
40	23UEC176	SANTHOSH S
41	23UEC180	SHARAN G
42	23UEC181	SHARMATHA SREE P
43	23UEC184	SIVANESAN B
44	23UEC185	SIVASUBRAMANIAN S
45	**23UEC186**	**SNEGA A**
46	23UEC187	SOMESH KOUMAR B
47	23UEC189	SREEMAN D
48	23UEC193	SRIRAM S
49	23UEC200	SWATHI D
50	23UEC204	THARINI G
51	23UEC208	VASANTH RAJ K
52	23UEC213	VIKNESH R
53	23UEC216	VISHAL S
54	23UEC222	YUVAASREE V
55	23UEC223	YUVADHARSHINI T

Gallery of Photographs

Members delivering about the Basics of Robotics

Members explaining about various robotics events

Activity 12 - Hands on “Line Follower”

Name of the Activity : Hands on “Line Follower”

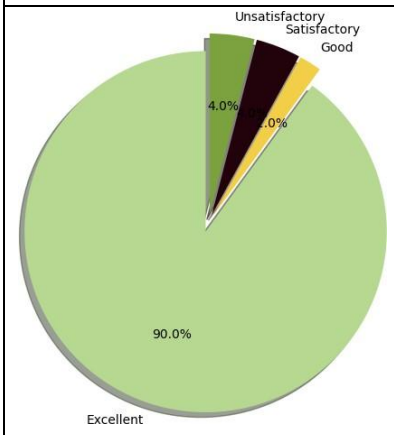
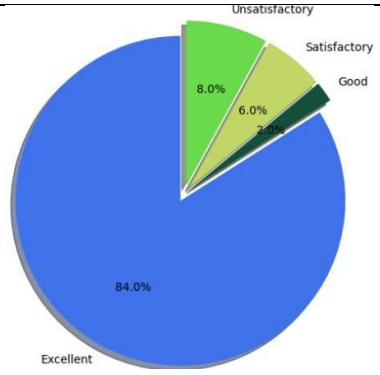
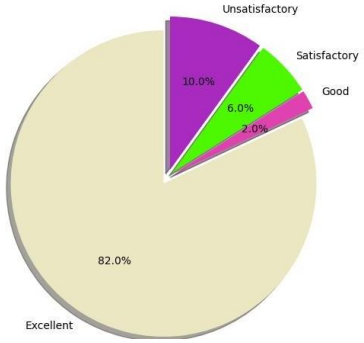
Name of the Club : Robotics and Automation Club

Date / Day of Activity : 13/04/2024Saturday

Activity executed for : III year /VI Sem /A

A Line Follower Robot is an autonomous robot that follows a line marked on the floor. The line is usually black on a white surface or vice versa. The robot uses IR sensors to detect the line and sends signals to the controller. The controller processes these signals and adjusts the speed and direction of the motors. The chassis provides the structure, and motors and wheels enable movement. A microcontroller acts as the brain of the robot. The battery supplies power to all components. The robot automatically follows the path without human intervention. Line Follower Robots are used in industrial transport, warehouses, and material handling. They are also widely used in educational projects to teach robotics basics. This hands-on activity helps students understand sensors, controllers, and automation. It improves practical skills in designing, assembling, and programming robots.

FEEDBACK

Was the class useful and relevant to the topic?	The session was clear and understandable.	How did the club members interact with the students?
		

SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

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Puducherry - 605 107

Department of Electronics and Communication Engineering

Attendees List

Batch – 2023-2024

Year/ Semester/Sec	:	I / I / A
Name of the Club	:	Robotic and Automation
No of Students Present	:	55
No of Students Absent	:	Nil
Absentees Reg No	:	-

S.No.	Reg No.	Name
1	23UEC001	AANJOSE A
2	23UEC002	AARTHI A
3	23UEC003	ABDUL RAZAQ A
4	23UEC008	AKSHAYA V
5	23UEC010	ANANDHA KRISHNAN R
6	23UEC012	ANNAMALAI S
7	23UEC017	ARAVIND J
8	23UEC028	ASWIN MALGIYA P
9	23UEC031	BALAGANESAN V
10	23UEC033	BHARATHI V
11	23UEC038	DEV VISHWAA S
12	23UEC039	DEVADARSHAN B
13	23UEC040	DEVIPRIYA M
14	23UEC052	GAJALAKSHMI J
15	23UEC054	GIRIDHARAN N
16	23UEC060	GOWSHIHA V
17	23UEC062	HARIHARAN M
18	23UEC068	HARSHA VARDHINI R
19	23UEC072	HEMAVATHY M
20	23UEC074	JANANI G
21	23UEC078	JAYAPRAKASH G
22	23UEC080	KALAIVANI M
23	23UEC086	KARTHICK M
24	23UEC087	KARTHIKA G
25	23UEC088	KATHIR KRSHNA S
26	23UEC093	KEERTHIVASAN V
27	23UEC099	KUMARAN K

S.No.	Reg No.	Name
28	23UEC105	MADHUMITHA B
29	23UEC110	MANJINEESHWARI S
30	23UEC111	MATHUMITHA P
31	23UEC113	MENAGA S
32	23UEC115	MOHAMED SADIQ M
33	23UEC120	MONESH G
34	23UEC122	MUKESH M
35	23UEC123	MUKESH M
36	23UEC126	NANDHAKUMAR R
37	23UEC140	PARTHASARATHI C
38	23UEC141	PARTHIBAN C
39	23UEC148	PREETHA D
40	23UEC155	RAGUL S
41	23UEC162	RISHMA PARVEEN S
42	23UEC164	ROHAN S
43	23UEC165	ROHITH KUMAR S
44	23UEC167	RUTHRA PRABU S
45	23UEC170	SAIGANESH G
46	23UEC172	SANDHYA I
47	23UEC174	SANJAY KUMAR S
48	23UEC175	SANJAY P
49	23UEC188	SREE DEVI D
50	23UEC203	TAMIZH NILAVAN A
51	23UEC209	VASUNDARAA J N
52	23UEC210	VETRISELVAN S
53	23UEC214	VIMALRAJ K K
54	23UEC215	VINDHIYA M
55	23UEC220	YOGA PRASAD A

Gallery of Photographs

Members delivering about the Basics of Robotics 	Members explaining about various robotics Structure
Members explaining what are the difficulties faced during a robotics competition 	Interaction between the members and students