



SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)



**DEPARTMENT OF INSTRUMENTATION AND
CONTROL ENGINEERING**

**AUTOMATE THE FUTURE CLUB
ANNUAL REPORT
(ACADEMIC YEAR 2022-2023)**

Submitted by

Dr.K.Naveen Kumar

Associate professor

Faculty Coordinator



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PREFACE

The **Automate the Future Club** of the Department of Instrumentation and Control Engineering (ICE) at Sri Manakula Vinayagar Engineering College (SMVEC) stand as dynamic platforms dedicated to nurturing innovation, technical excellence, and professional growth among students. In an era driven by automation, artificial intelligence, smart systems, and advanced control technologies, these clubs aim to bridge the gap between academic learning and industrial application. The *Automate the Future Club* focuses on emerging trends in automation, robotics, industrial instrumentation, IoT, PLC & SCADA systems, and intelligent process control. It provides students with opportunities to engage in hands-on projects, workshops, technical talks, and industry interactions that prepare them for future technological challenges. The *ICON Club* (Instrumentation and Control Oriented Network) serves as a knowledge-sharing and leadership-building forum. It encourages creativity, research orientation, teamwork, and technical presentation skills through seminars, guest lectures, industrial visits, competitions, and mentoring activities. Together, these clubs cultivate a culture of curiosity, collaboration, and continuous learning within the ICE department. By empowering students with practical exposure and innovative thinking, they contribute to shaping competent engineers ready to “Automate the Future” and lead advancements in the field of instrumentation and control. Through dedication, teamwork, and vision, the clubs reflect the department’s commitment to academic excellence and technological leadership.

Faculty Coordinator

Dr.K.Naveen Kumar

HOD/ICE

Dr.L.M.Varalakshmi

IQAC Coordinator

Dr.Arivalagar A A

Director Cum Principal

Dr.V.S.K.Venkatachalapathy



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ABOUT THE INSTITUTE

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 13 undergraduate, 8 postgraduate and 11 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. To be globally recognized for excellence in quality education, innovation and research for the transformation of lives to serve the society.

VISION

To nurture the cornerstone of excellence in engineering education and drive innovation by seamlessly integrating the fundamentals of Science and Humanities

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.



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ABOUT THE DEPARTMENT

The Department of Instrumentation and Control Engineering, established in 2002, stands as one of the best ICE colleges in Pondicherry & Tamilnadu, and a key part of the ICE colleges in Pondicherry landscape. With its second NBA certification, the department reflects unwavering commitment to academic excellence and global standards. For aspirants searching for top 10 ICE colleges in Pondicherry, SMVEC has consistently been a preferred choice.

Graduates from our department now hold executive positions at top companies like TCS, Wipro, and Microchip. This blend of computer science, electronics, and automation offers a unique mix, enhanced by semester-long lab sessions and a selection of value-added electives. Our students gain access to certifications from Google, Microsoft, and Cisco. They also benefit from hands-on learning opportunities via expert-led seminars and workshops. Whether you're evaluating ICE colleges in Pondicherry fees or comparing options among ICE engineering colleges in Tamilnadu, this department promises high value and great returns.

VISION

To provide high-quality education, training, and research in Instrumentation and Control Engineering syllabus that meets industrial and social needs while upholding strong ethical standards. Our aim is to remain a leader among the best instrumentation engineering colleges in Pondicherry and expand our recognition among ICE engineering colleges in Tamilnadu.

MISSION

M1: Quality education: To impart technical knowledge, leadership and managerial skills to meet the current industrial and societal needs.

M2: Research and Innovation: To foster innovation, research and development for the benefit of global community.

M3: Employability and Entrepreneurship: To enhance the employability skills and inculcate entrepreneurial attitude.

M4: Ethical Values: To provide extension services to rural society and instill ethical values among the students.



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ABOUT AUTOMATE THE FUTURE CLUB

The **Automate the Future Club** is a student-centric technical club established with the vision of promoting knowledge, innovation, and hands-on learning in the field of **automation and emerging technologies**. The club serves as a platform for students to explore, design, and implement intelligent systems that align with modern industrial and societal needs.

The club focuses on bridging the gap between theoretical concepts and practical applications by encouraging experiential learning through workshops, technical talks, hands-on training sessions, industrial visits, and project-based activities. Emphasis is given to areas such as **industrial automation, embedded systems, robotics, IoT, artificial intelligence, and smart control technologies**.

Automate the Future Club also nurtures **innovation, entrepreneurship, and problem-solving skills** by motivating students to develop real-time solutions, participate in competitions, and engage in interdisciplinary teamwork. Through its activities, the club aims to enhance technical competence, creativity, leadership qualities, and industry readiness among students.

Overall, the Automate the Future Club plays a significant role in preparing students to meet future technological challenges and contribute effectively to the advancement of automation-driven industries.

OBJECTIVE:

The Primary goal of automate the future club are as follows

- To promote awareness and understanding of **automation, control systems, and emerging technologies** among students.
- To bridge the gap between **theoretical knowledge and practical implementation** through hands-on training, workshops, and projects.
- To develop students' skills in **industrial automation, embedded systems, robotics, IoT, and intelligent control techniques**.
- To encourage **innovation, creativity, and problem-solving abilities** by working on real-time and industry-relevant challenges.
- To provide a platform for students to **collaborate, share ideas, and engage in interdisciplinary learning**.



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DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING
AUTOMATE THE FUTURE CLUB

Academic Year 2022-2023

Name of the Activity : Fundamentals of PLC Programming

Name of the Club : Automate the Future Club

Date / Day of Activity : 14.09.2022

Number of Members Present : 2

Activity executed (Yr. /Sem/ Sec) : II/IV SEM

Number of Students participated : 42

Objective of the Activity : PLC Programming is to develop the designing logic that reads input,executes instructions and controls output.

Outcome of the Activity :The main objective of PLC programming is to create reliable, efficient, and automated control systems for industrial processes by designing logic that reads inputs (sensors, switches), executes instructions, and controls outputs (motors, valves) in real-time, replacing complex hardwired systems and enabling flexible, dynamic automation for manufacturing, energy, and more.

Signature of club representative

Signature of staff In-Charge

Signature of HOD



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DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING
AUTOMATE THE FUTURE CLUB

Academic Year 2022-2023

CIRCULAR

(for students)

Dear Students,

- We are thrilled to invite you to the **Automate the future club's** upcoming event, an **Open Discussion on the topic of " Fundamentals of PLC programming"**. This event will to create reliable, efficient, and automated control systems for industrial processes by designing logic that reads inputs (sensors, switches), executes instructions, and controls outputs (motors, valves) in real-time
- Embrace the challenge to articulate, captivate, or innovate, making the most of this brief timeframe.

Event Details:

Date: 14.09.2022

Time: 02.05 P.M

Venue: IInd classroom

Don't miss this engaging and thought-provoking discussion!

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

Signature of staff In-Charge

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

Signature of HOD

OFFICE BEARERS

Automate the future Club is led by a dedicated team of office bearers who play a vital role in driving the club's activities and fostering a culture of innovation. The team typically includes a President, Vice President, Secretary, Treasurer, and Technical Leads, each bringing unique skills and responsibilities to the table. These office bearers coordinate workshops, manage resources, mentor junior members, and oversee project development. Their leadership ensures smooth operation of the club while encouraging creativity, collaboration, and hands-on learning in the field of robotics. Through their efforts, the club continues to be a hub of technical excellence and a launch pad for future innovators.

Faculty Coordinator : Dr. K.Naveen Kumar,Associate professor

President : M.Rathika,II year

Vice President : G.Toshikka,II year

Secretary : D.Kamali,II year

Technical Head : V.Hemachandran,II year

Creative Head : R.Dhanesh,II year



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DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING
AUTOMATE THE FUTURE CLUB

Academic Year 2022-2023

CLUB ACTIVITY REPORT

VENUE: IInd classroom

DATE: 14.09.2022

The club activity was successfully initiated by in charges: Dr. M. Rekha and Dr. K.Naveen Kumar



- The outcome of this activity is to create reliable, efficient, and automated control systems for industrial processes by designing logic that reads inputs (sensors, switches), executes instructions, and controls outputs (motors, valves) in real-time, replacing complex hardwired systems and enabling flexible

Signature of staff In-Charge

Signature of HOD







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DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING
AUTOMATE THE FUTURE CLUB

Academic Year 2022-2023

Student Attendance

S.No	Reg.No	Name of the student	PRESENT/ABSENT
1	21ICL001	BALACHANDAR C	PRESENT
2	21ICL002	DHANUSHWAR J P	PRESENT
3	21ICL003	NEPOLIAN A	PRESENT
4	21UIC001	ABISHEK R	PRESENT
5	21UIC002	AJAY P	PRESENT
6	21UIC003	AMRISH P	PRESENT
7	21UIC004	ANAS S	PRESENT
8	21UIC005	ATCHAYA S	PRESENT
9	21UIC006	BALA KUMARAN M	PRESENT
10	21UIC007	DEEPAK KUMAR R	PRESENT
11	21UIC008	DEVADHARSHINI S	PRESENT
12	21UIC009	DHANESH R	PRESENT
13	21UIC010	DHANUSHKUMAR M	PRESENT
14	21UIC011	DHARAN S	PRESENT
15	21UIC012	DINESH R	PRESENT
16	21UIC013	DURGA S	PRESENT
17	21UIC014	GOKULSRI S	PRESENT
18	21UIC015	GOUTHAM K	PRESENT
19	21UIC016	HARISHWARAN M	PRESENT

20	21UIC017	HEMACHANDRAN V	PRESENT
21	21UIC018	IRFAN M S	PRESENT
22	21UIC019	JEGANATHAN R	PRESENT
23	21UIC020	KALYANI V	PRESENT
24	21UIC021	KAMALI D	PRESENT
25	21UIC022	KULATHTHAZHAKI S	PRESENT
26	21UIC023	LOGESH D	PRESENT
27	21UIC024	MOHAN RAM S	PRESENT
28	21UIC025	NAMASIVAYAM S	PRESENT
29	21UIC026	PRISHA A	PRESENT
30	21UIC027	RAGURAJAN N	PRESENT
31	21UIC028	RATHIKA M	PRESENT
32	21UIC029	RAVINDARAN N	PRESENT
33	21UIC030	ROGITH A	PRESENT
34	21UIC031	SANJAI KUMAR R G	PRESENT
35	21UIC032	SARUMATHY N	PRESENT
36	21UIC033	SENGUTTUVAN A	PRESENT
37	21UIC034	SUSHANTH M	PRESENT
38	21UIC035	THAMIZHSELVAN T	PRESENT
39	21UIC036	TOSHIKKA G	PRESENT
40	21UIC037	VENNILA P	PRESENT
41	21UIC038	VISWA D	PRESENT
42	21UIC039	YOKESH U	PRESENT



STAFF INCHARGE



SIGNATURE OF HOD



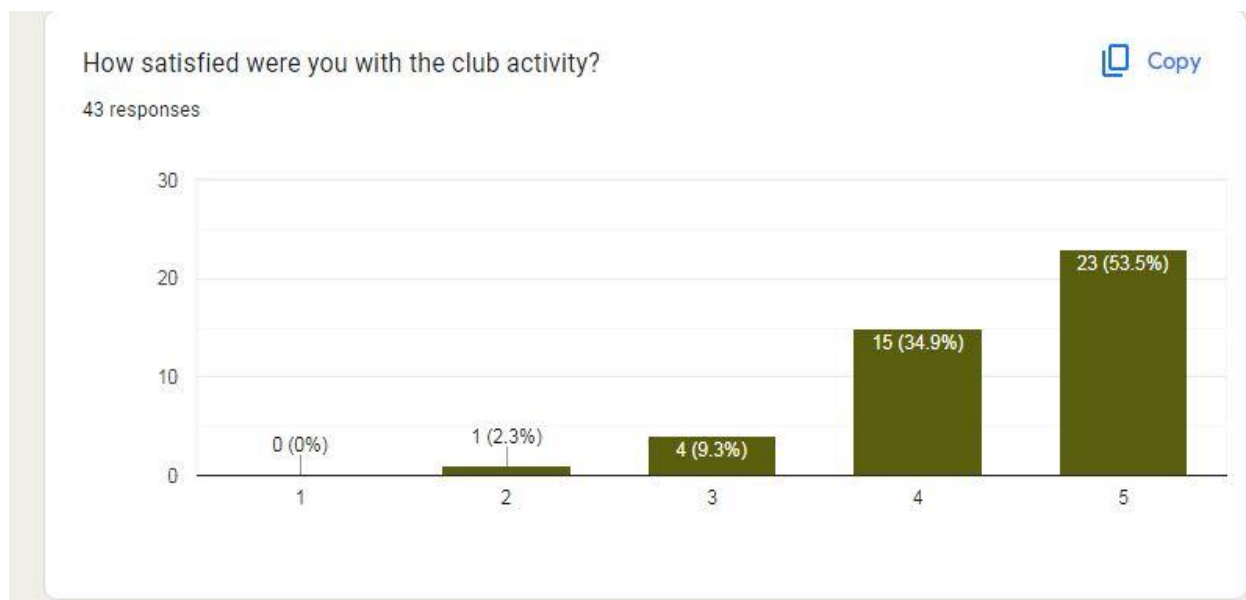
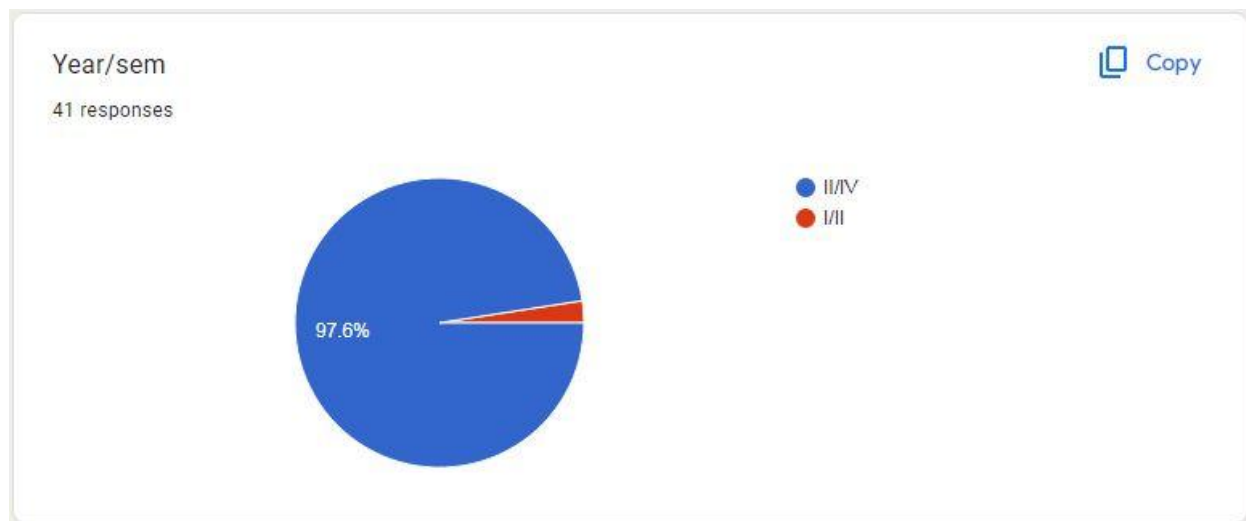
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DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING
AUTOMATE THE FUTURE CLUB

Academic Year 2022-2023

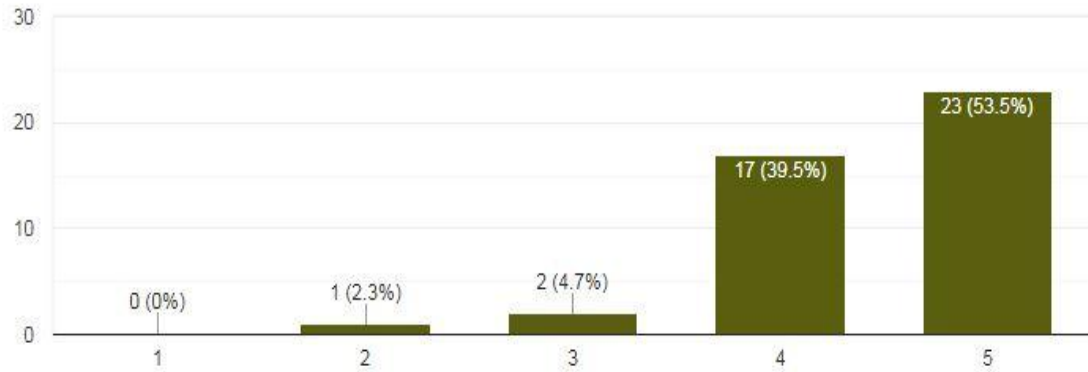
STUDENT FEEDBACK



How relevant and helpful do you think it was to your field of interest?

 Copy

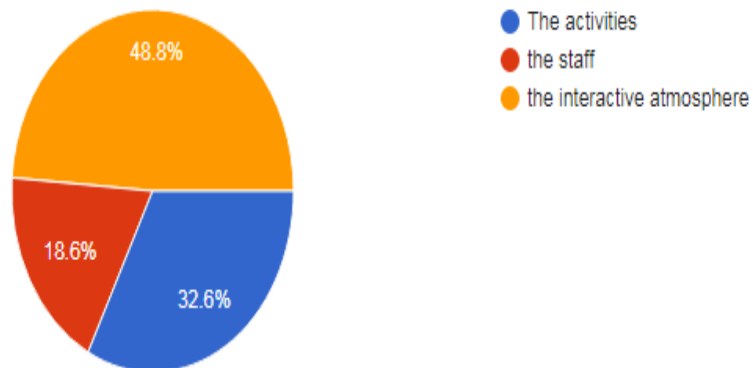
43 responses



What did you like the most about the club activity?

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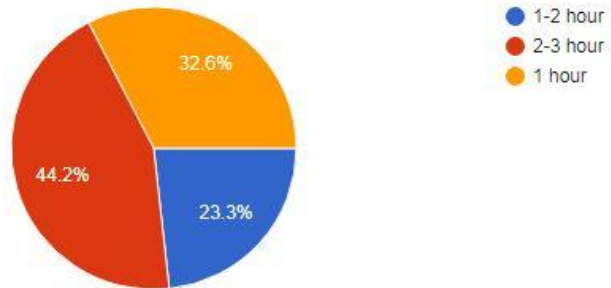
43 responses



How much time do you want to spend typically on the club activity?

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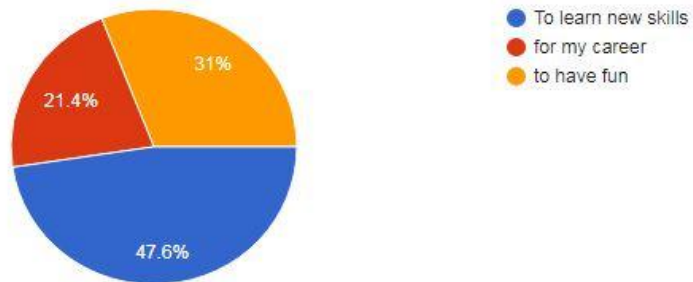
43 responses



What are your goals on participating in this club activity?

 Copy

42 responses



what are your thoughts on the clubs overall objective and outcome?

 Copy

43 responses





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DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

ICON CLUB ACTIVITY REPORT

DATE: 23.01.2023

Topic: CONNEXION



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DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING
ICON CLUB

Academic Year 2022-2023

Name of the Activity : Connexion
Name of the Club : Icon Club
Date / Day of Activity : 23.01.2023
Number of Members Present : 02
Activity executed (Yr. /Sem/ Sec) : I/II SEM
Number of Students participated : 48
Objective of the Activity : Develop cognitive agility via wordplay.
Outcome of the Activity : To improved word association skills, enhanced cognitive flexibility, and increased linguistic creativity.

Signature of club representative

Signature of staff In-Charge

Signature of HOD



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DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

ICON CLUB

Academic Year 2022-2023

CIRCULAR

(for students)

Dear Students,

- We are thrilled to invite you to the **Icon club's** upcoming event, a “**Connexion**”
- To improved word association skills, enhanced cognitive flexibility, and increased linguistic creativity.
- Expand players' vocabulary by introducing them to new words and encouraging exploration of word meanings and usage

Event Details:

Date: 23.01.2023

Time: 1.50 PM to 4.20 PM

Venue: I- year classroom

Don't miss this engaging and thought-provoking discussion!

A handwritten signature in black ink, appearing to be 'Rubi'.

Signature of staff In-Charge

A handwritten signature in black ink, appearing to be 'K. Srinivas'.

Signature of HOD

OFFICE BEARERS

The Icon Club is led by a dedicated team of office bearers who play a vital role in driving the club's activities and fostering a culture of innovation. The team typically includes a President, Vice President, Secretary, Treasurer, and Technical Leads, each bringing unique skills and responsibilities to the table. These office bearers coordinate workshops, manage resources, mentor junior members, and oversee project development. Their leadership ensures smooth operation of the club while encouraging creativity, collaboration, and hands-on learning in the field of robotics. Through their efforts, the club continues to be a hub of technical excellence and a launch pad for future innovators.

Faculty Coordinator : Dr. M. Rekha ,Associate professor

President : R.Deekshetha,I year

Vice President : U.Hariprabu,I year

Secretary : T.Manikavel,I year

Technical Head : R.Harish,I year

Creative Head : M.Nisha,I year



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DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING
ICON CLUB

Academic Year 2023-2024

CLUB ACTIVITY REPORT

VENUE: I-year classroom

DATE: 30.03.2024

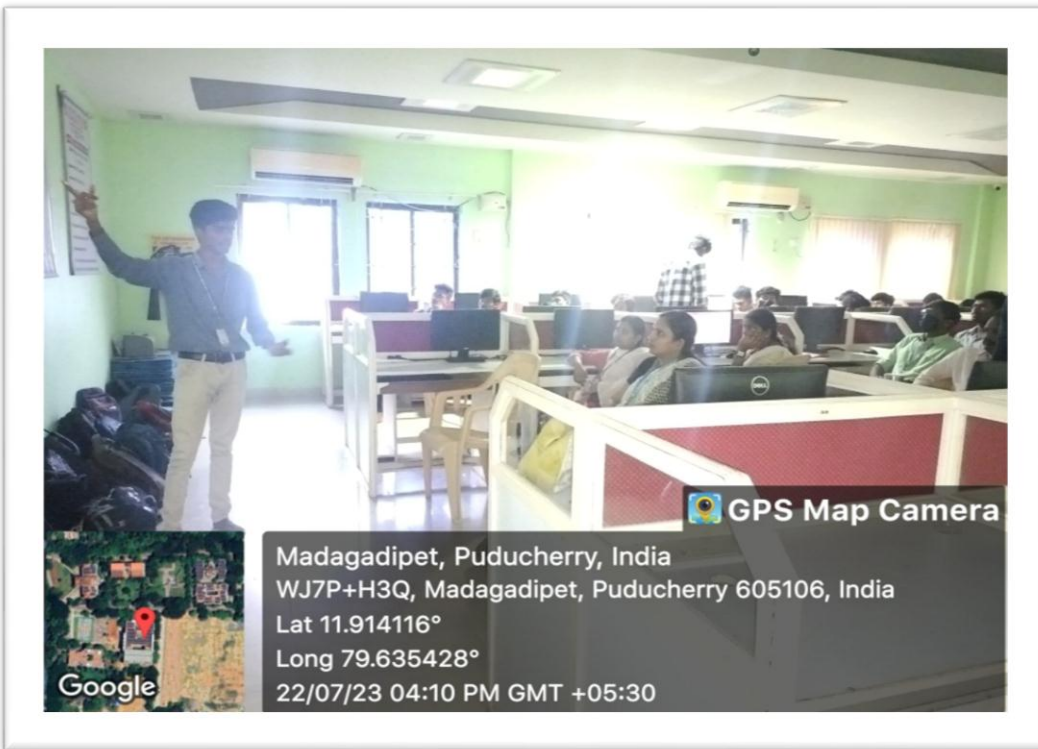
The club activity was successfully initiated by in charges: Dr. S.Sivanandhakumar and Dr.M.Rekha.



- Expand players' vocabulary by introducing them to new words and encouraging exploration of word meanings and usage.
- To improved word association skills, enhanced cognitive flexibility, and increased linguistic creativity.

Signature of staff In-Charge

Signature of HOD





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DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

ICON CLUB

Academic Year 2022-2023

Student Attendance

S.No	REG.NO	Name of the student	Present/absent
1	22ICL001	BHARATH M	Present
2	22ICL002	LOGESH S	Present
3	22ICL003	NAVDEEP K	Present
4	22UIC001	ABINESH E	Present
5	22UIC002	AKHASSH M	Present
6	22UIC003	BARATH T	Present
7	22UIC004	CHARRUMATHY S	Present
8	22UIC005	DANUSHGANATH C	Present
9	22UIC006	DEEKSHETHA R	Present
10	22UIC007	GAYATHRI S	Present
11	22UIC008	GHURU RAHAVAN	Present
12	22UIC009	GUNALI G	Present
13	22UIC010	HAATHEEM N	Present
14	22UIC011	HARIPRABU U	Present

15	22UIC012	HARISH R	Present
16	22UIC013	HARISH S	Present
17	22UIC014	JANARDHAN SHALIN BABU S	Present
18	22UIC015	JAWAHAR D	Present
19	22UIC016	KRISHNAKUMAR	Present
20	22UIC019	LOGESHWARI S	Present
21	22UIC020	LOKESH RAJ S	Present
22	22UIC021	MAHALAKKSHIMI	Present
23	22UIC022	MANICKVEL T	Present
24	22UIC023	MANOJKUMAR D	Present
25	22UIC024	MATHIYAMUDHAN	Present
26	22UIC025	MONICA P	Present
27	22UIC026	NISHA M	Present
28	22UIC027	NISHANTH A	Present
29	22UIC028	PRAGADEESH G	Present
30	22UIC029	PRIYANGHA S	Present
31	22UIC030	RAJASUNDARAM	Present
32	22UIC031	ROHIT S	Present
33	22UIC032	SARANKUMAR S	Present
34	22UIC033	SHRIVARSHA RA	Present
35	22UIC034	SRIDHAR R M	Present
36	22UIC035	SRINIDHI K	Present

37	22UIC036	SUBHIKSHA R	Present
38	22UIC037	SUDHARSAN S K	Present
39	22UIC038	SUMITHA R	Present
40	22UIC039	TAMILMARAN A	Present
41	22UIC040	TAMIZHARASAN S	Present
42	22UIC041	VALLI NATCHIAR	Present
43	22UIC042	VARUNISHA M	Present
44	22UIC043	VETRIVEL D	Present
45	22UIC044	VISHALPRANAV P	Present
46	22UIC045	YUVAN SHANKAR	Present
47	22UIC046	YUVASHANKAR M	Present
48	22UIC047	ZUMAANA HASEEN N	Present



STAFF INCHARGE



HOD SIGNATURE



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DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING
ICON CLUB

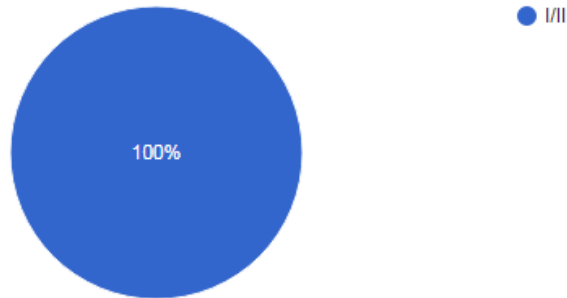
Academic Year 2022-2023

STUDENT FEEDBACK

YEAR/SEM

34 responses

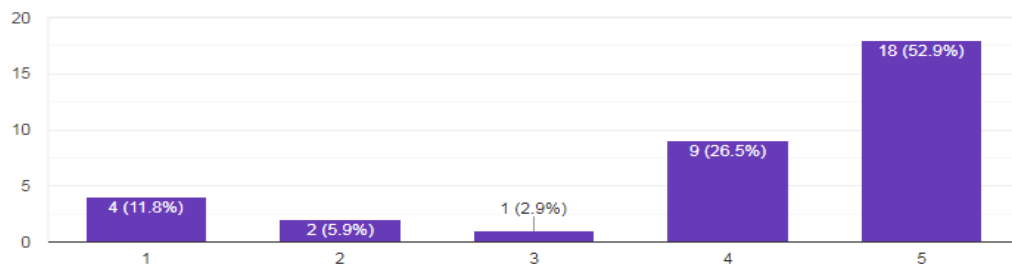
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How satisfied were you with the club activity?

34 responses

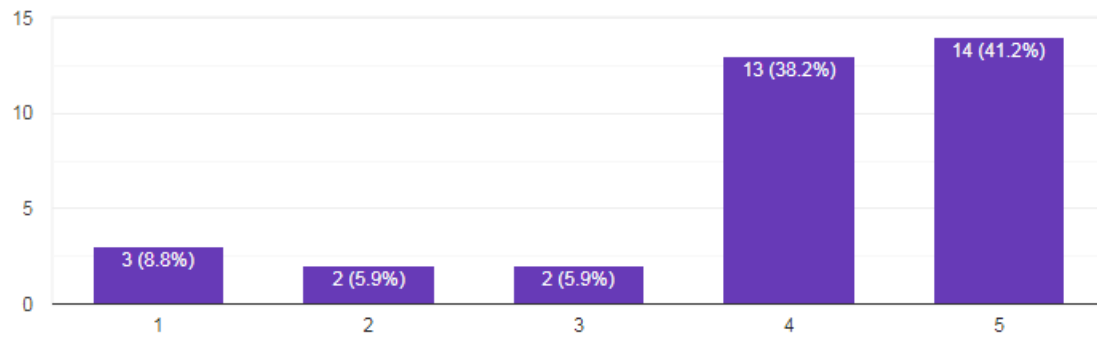
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How relevant and helpful do you think it was to your field of interest

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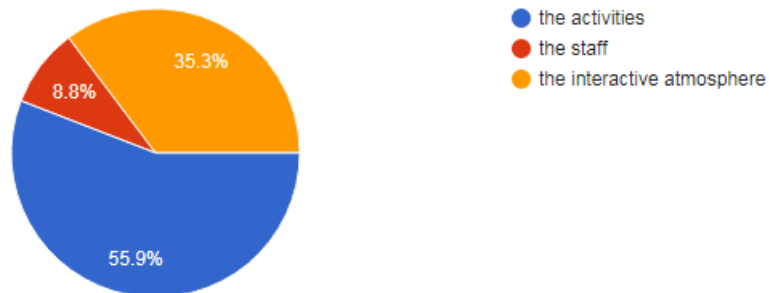
34 responses



What did you like the most about the club activity?

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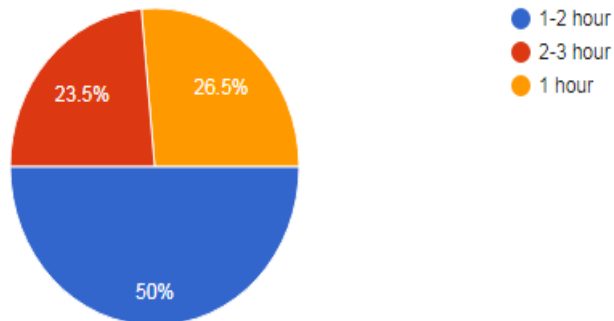
34 responses



How much time do you want to spend typically on the club activity?

 Copy

34 responses



What are your goals on participating in this club activity?

 Copy

34 responses

