



SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)
PUDUCHERRY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

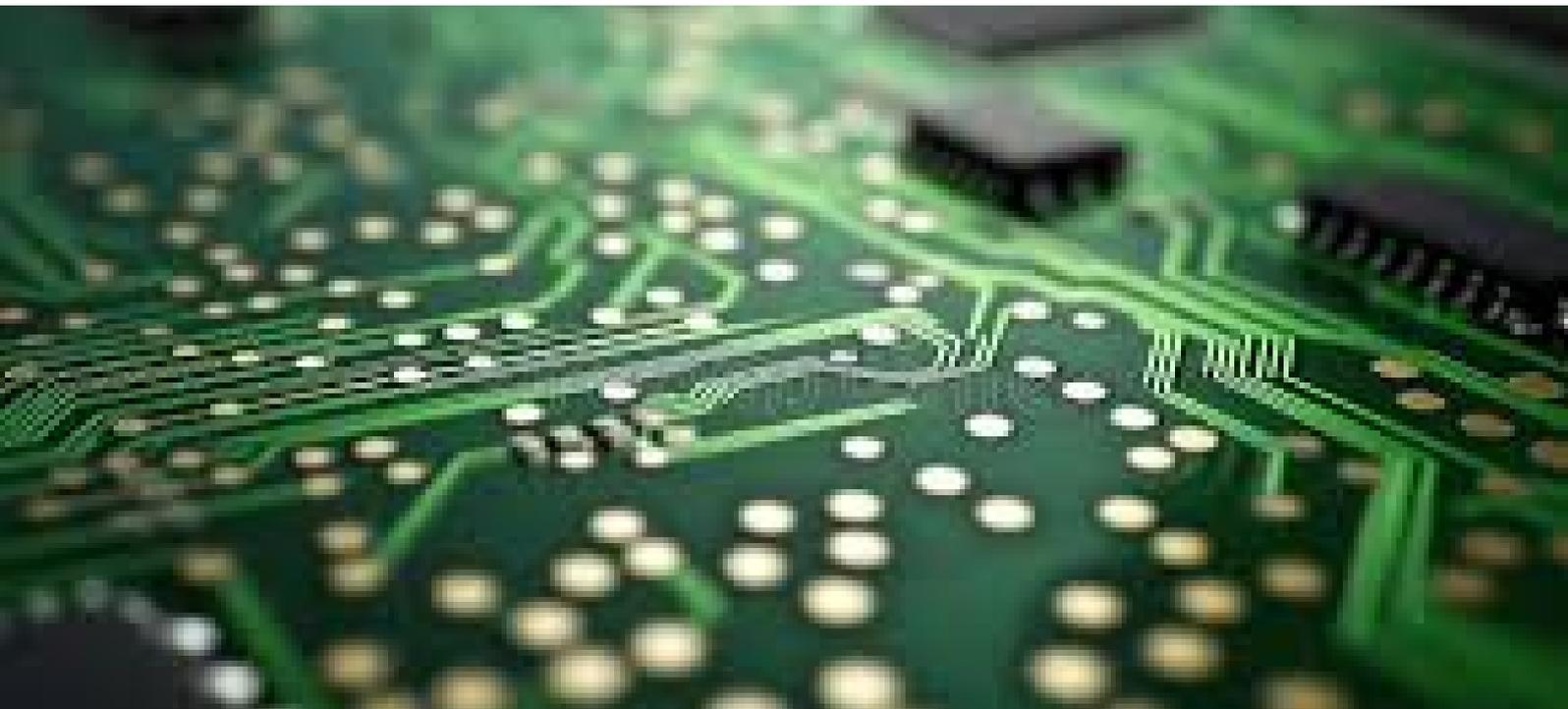


ELEKTOR CLUB

A Technical endeavor to seek the unknown

ANNUAL REPORT

ACADEMIC YEAR : 2023 -2024



Submitted By
Ms.R.Priya
Assistant Professor/ECE

CONTENTS

Preface	2
About the Institution	3
• Vision	3
• Mission	3
About the Department	4
• Vision	4
• Mission	4
• Programs Offered	4
About the Elektor Club	5
• Objectives of the Club	5
Details of Club Members	6
List of Club Activities Conducted	7
Detailed Discussion of the Activities	8
• Technical Debate	8
• Technical Debate	11
• Technical Debate	14
• C Aptitude and Technical Connection	17
• Technical Debate	20
• Introduction to Programming Language	23
• Internet of Things	26
• Technical Quiz	29
• Working of Sensors in Day-to-Day Life	33
• Working of Load Tester	35
• Introduction to Transparent Smartphones	38

Preface

The ELEKTOR Club of the Department of Electronics and Communication Engineering serves as a vibrant and collaborative platform dedicated to promoting interdisciplinary technical learning, innovation, and practical skill development among students. Established in 2013 with the vision of creating a common forum for electronics enthusiasts, the club brings together self-motivated students who actively explore innovative ideas and transform theoretical knowledge into real-world electronic applications. The club is committed to strengthening students' technical competence by integrating concepts from various domains of engineering and technology, thereby preparing them to meet the demands of an increasingly competitive and rapidly evolving technological landscape. Through hands-on training, technical workshops, expert lectures, and project-based learning, the ELEKTOR Club strives to bridge the gap between classroom learning and practical implementation in core electronics and emerging technologies. It provides an encouraging environment where students can experiment, design, and build innovative electronic systems while developing creativity, analytical thinking, and problem-solving abilities. supported by enthusiastic student members and dedicated faculty guidance, the ELEKTOR Club continues to function as a comprehensive resource and knowledge-sharing community for aspiring electronics engineers. By fostering collaboration, innovation, and continuous learning, the club remains committed to shaping technically proficient, socially responsible, and future-ready professionals who can contribute meaningfully to technological progress and societal development.

Submitted By



Ms.R.Priya
Assistant Professor/ECE



HoD/ECE
Dr.P.Raja



IQAC Coordinator
Dr.A.A.Arivalagar



Director Cum Principal
Dr.V.S.K Venkatachalapathy

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 Elektor Club

With the motive to provide a common platform for inter disciplinary technical activities of the Department, ELEKTOR Club was launched in 2013. The club consist of self -motivated students who gather together to come up with some innovative ideas and work on them. It aims to technically strengthen the students by integrating their skills in various fields of Engineering and Technology so as to cope up with the highly competitive world. The idea to develop a comprehensive knowledge of electronics and bring about projects based on core electronics gave the initiation to the Club. We strive to teach and help students acquire new skills in an era of rapidly evolving technology.

The club aims to fill in the void of Electronics hobbyists in the institute by providing a platform where the theory learnt in classes can be applied in the real world. The mission of the club is to expose students to challenges and new technologies in the field of electronics and thus to nurture and develop their skill set in this arena. The Elektor Club is designed to be a comprehensive resource and support network for anyone interested in electronics. Elektor club will expose students to new challenges and technologies in the field of electronics and thus to nurture and develop their skills set in this area by offering a wide range of benefits and fostering a collaborative environment, it aims to inspire innovation, learning, and the sharing of knowledge within the electronics community.

Objectives of the Club

The objectives of the club typically revolve around fostering interest, education, and hands-on experience in electronics and related fields. Here are some common objectives:

- Provide hands-on experience and theoretical knowledge about various aspects of electronics
- To make the students learn and experience electronics, practically
- To provide a platform for students to shape their innovative ideas
- To utilize the latest technological advancements in the field of electronics to build project
- To expose students to the latest technological advancements in electronics.
- We help students to acquire and develop new skill-sets by conducting various lectures and workshops.

Details of Office Bearers

The Elektor Club is guided by a committed team of office bearers who play a crucial role in shaping the club's technical vision and activities. The team generally consists of a President, Vice President, Secretary, Treasurer, and Technical Coordinators, each contributing distinct responsibilities and expertise. These leaders organize workshops, manage technical resources, support project development, and mentor fellow students in electronics and emerging technologies. Their coordinated efforts ensure the smooth functioning of the club while promoting innovation, teamwork, and practical learning

STAFF COORDINATOR

Ms.B.Menaga

**Assistant
Professor**

ECE

STAFF COORDINATOR

SNEGA S

President

III Year

SUBISKHA

Vice President

III Year

YUVASRI

Secretary

II Year

**MOHAMMED
SAJID**

Technical Lead

II Year

MOHAN RAJ

Creative Head

I Year

SWETHA J

Publicity Head

I Year

List of Club Activities Conducted

S.no	Title of the Club Activity	Date of Conduction	Year/Sem/Sec	No.of Participants
1	Technical Debate	29.09.2023	I/II/C	55
2	Technical Debate	30.09.2023	I/II/A	56
3	Technical Debate	03.10.2023	I/II/D	57
4	C Aptitude and Technical Connection	07.10.2023	II/III/C	61
5	Technical Debate	09.10.2023	I/II/B	58
6	Introduction to Programming Language	11.10.2023	I/II/A	59
7	Internet of Things	13.10.2023	II/III/C	61
8	Technical Quiz	27.10.2023	I/II/D	57
9	Working of Sensors in Day-to-Day Life	30.03.2024	I/II/D	57
10	Working of Load Tester	13.04.2024	I/II/C	54
11	Introduction to Transparent Smartphones	13.04.2024	I/II/B	58



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ENGINEERING COLLEGE
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DETAILS OF CLUB ACTIVITY - 1

Name of The Activity	:	Technical Debate
Name of the Club	:	Elektor Club
Number of Members Present	:	4
Activity executed (Year /Sem/ Sec)	:	I/I/C
Objective of the Activity	:	The objective of this activity is to enhance students' technical knowledge and critical thinking by encouraging structured discussion on emerging technologies and engineering concepts. It aims to improve analytical ability, logical reasoning, and professional communication skills through technical argumentation and idea exchange.
Outcome of the Activity	:	Students are able to articulate technical concepts clearly and defend their viewpoints with logical reasoning. The activity improves confidence, subject understanding, teamwork, and communication skills, enabling students to actively participate in academic and professional discussions.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name of the Staff in-charge/ Program Coordinator		Ms.B.Menaga			
Duration & Venue of the Activity					
Date	29.09.2023	Day	Friday	Duration of Activity	2 Hours
Details of the Class					
Year	I	Semester /Section	I / C	Total strength of the class	55
PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT					
<p>Foster Interest in Electronics The electronics club aims to spark and nurture a genuine interest in electronics and electrical engineering among its members. By engaging in discussions, demonstrations, and activities, the club encourages students to explore the exciting world of electronics, understand its relevance in everyday life, and inspire them to pursue this field further.</p> <p>Provide Hands-On Experience One of the key purposes of the club is to give members practical experience with electronic circuits, components, and devices. Through workshops, lab sessions, and DIY projects, students can apply theoretical knowledge, develop essential skills, and gain confidence in working with various electronic tools and equipment.</p> <p>Encourage Creativity and Innovation The club promotes a creative and innovative mindset by encouraging members to design and build their own electronic projects. These project-based activities not only enhance problem-solving abilities but also allow students to experiment with new ideas, technologies, and techniques, fostering a spirit of innovation.</p> <p>Create a Collaborative Environment Building a strong sense of community is central to the club's mission. The electronics club provides a supportive and collaborative environment where members can share their knowledge, skills, and experiences. Through group projects, peer-to-peer learning, and discussions, students learn the value of teamwork and benefit from diverse perspectives.</p>					



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Year/Sem/Sec: I/II/C

Date: 29.09.2023

Report on Club Activity

“Technical Debate”

The Elektor Club organized Technical Debate for the First Year Students of C section on 29.09.2024, stimulating technical debate that engaged participants in a thoughtful discussion on pertinent technological topics. The debate provided a platform for members to showcase their research, critical thinking skills, and ability to articulate arguments on complex issues.

This was conducted to share the students about how to critically analyze complex issues.

Through this debate, students develop the ability to think analytically and make informed decisions, skills that are invaluable in academic, professional, and personal contexts. The club members shared their knowledge on how to explore new ideas, challenge assumptions, and broaden their perspectives. In one debate, participants discussed the ethical considerations surrounding AI and its potential impact on society. The debate



Interaction among the students about the Significance of Technical Debates

focused on various technological topics which helps the students in expanding their knowledge in various fields. The members insisted the importance of presenting their arguments in a clear, concise, and compelling manner, students enhance their ability to convey ideas effectively to diverse audiences, a skill that is essential in both academic and professional settings

Throughout the debates, the students demonstrated their ability to analyze technical information, consider multiple perspectives, and defend their positions through evidence-based arguments. The debates were moderated to ensure fair discussion and adherence to debate rules, fostering a constructive environment for intellectual exchange and learning.



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DETAILS OF CLUB ACTIVITY - 2

Name of The Activity	:	Technical Debate
Name of the Club	:	Elektor Club
Number of Members Present	:	4
Activity executed (Year /Sem/ Sec)	:	I//A
Objective of the Activity	:	The objective of this activity is to strengthen students' aptitude skills while connecting logical reasoning with C programming concepts. It aims to enhance problem-solving abilities by integrating analytical thinking with programming logic.
Outcome of the Activity	:	Students are able to analyze technical topics from multiple perspectives and present their viewpoints with clarity and confidence. The activity enhances subject knowledge, reasoning ability, and professional communication skills.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name of the Staff in-charge/ Program Coordinator		Ms.B.Menaga			
Duration & Venue of the Activity					
Date	30.09.2023	Day	Saturday	Duration of Activity	2 Hours
Details of the Class					
Year	I	Semester /Section	I / A	Total strength of the class	56
PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT					
Foster Interest in Electronics The electronics club aims to spark and nurture a genuine interest in electronics and electrical engineering among its members. By engaging in discussions, demonstrations, and activities, the club encourages students to explore the exciting world of electronics, understand its relevance in everyday life, and inspire them to pursue this field further.					
Provide Hands-On Experience One of the key purposes of the club is to give members practical experience with electronic circuits, components, and devices. Through workshops, lab sessions, and DIY projects, students can apply theoretical knowledge, develop essential skills, and gain confidence in working with various electronic tools and equipment.					
Encourage Creativity and Innovation The club promotes a creative and innovative mindset by encouraging members to design and build their own electronic projects. These project-based activities not only enhance problem-solving abilities but also allow students to experiment with new ideas, technologies, and techniques, fostering a spirit of innovation.					
Create a Collaborative Environment Building a strong sense of community is central to the club's mission. The electronics club provides a supportive and collaborative environment where members can share their knowledge, skills, and experiences. Through group projects, peer-to-peer learning, and discussions, students learn the value of teamwork and benefit from diverse perspectives.					

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Year/Sem/Sec: I/II/A

Date: 30.09.2023

Report on Club Activity

“Technical Debate”

The members of the Elektor Club hosted a Technical Debate for students of First Year A section on 30.09.2024 with the purpose of promoting intellectual growth, enhancing academic skills, fostering ethical awareness, and preparing students for success in an increasingly complex and interconnected world. It was conducted with an objective to enhance student’s communication skill which serves the purpose of promoting intellectual growth, enhancing academic skills, fostering ethical awareness, and preparing students for success in an increasingly complex and interconnected world.

Tips for delivering clear and persuasive arguments were shared by the club members. The Technical Debate session was a successful event. The members shared the valuable elements of a debate, including opening statements and closing arguments. The members insisted the importance of presenting their arguments in a clear, concise, and compelling manner.

One purpose of Overview of the importance of technical debates in fostering innovation and problem-solving. At the end of the session students will be able to express their ideas of on topics with confidence which contribute to empowering their communication.

Overall, the technical debate organized by the club provided a valuable opportunity for members to deepen their understanding of current technological trends, engage in rigorous intellectual discourse, and develop critical thinking skills essential for navigating complex technological issues. The event fostered a sense of camaraderie and intellectual curiosity



Discussion with the students about the Technical nuances of the Debates



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DETAILS OF CLUB ACTIVITY - 3

Name of The Activity	:	Technical Debate
Name of the Club	:	Elektor Club
Number of Members Present	:	4
Activity executed (Year /Sem/ Sec)	:	I/I/D
Objective of the Activity	:	The objective of this activity is to improve students' ability to research, evaluate, and discuss technical topics relevant to industry and society. It focuses on strengthening analytical reasoning and collaborative learning through healthy technical argumentation.
Outcome of the Activity	:	Students demonstrate improved research skills and technical awareness. The activity develops confidence in expressing ideas, promotes teamwork, and enhances decision-making and critical-thinking abilities.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name of the Staff in-charge/ Program Coordinator		Ms.B.Menaga			
Duration & Venue of the Activity					
Date	03.10.2023	Day	Tuesday	Duration of Activity	2 Hours
Details of the Class					
Year	I	Semester /Section	I / D	Total strength of the class	57
PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT					
Foster Interest in Electronics The electronics club aims to spark and nurture a genuine interest in electronics and electrical engineering among its members. By engaging in discussions, demonstrations, and activities, the club encourages students to explore the exciting world of electronics, understand its relevance in everyday life, and inspire them to pursue this field further.					
Provide Hands-On Experience One of the key purposes of the club is to give members practical experience with electronic circuits, components, and devices. Through workshops, lab sessions, and DIY projects, students can apply theoretical knowledge, develop essential skills, and gain confidence in working with various electronic tools and equipment.					
Encourage Creativity and Innovation The club promotes a creative and innovative mindset by encouraging members to design and build their own electronic projects. These project-based activities not only enhance problem-solving abilities but also allow students to experiment with new ideas, technologies, and techniques, fostering a spirit of innovation.					
Create a Collaborative Environment Building a strong sense of community is central to the club's mission. The electronics club provides a supportive and collaborative environment where members can share their knowledge, skills, and experiences. Through group projects, peer-to-peer learning, and discussions, students learn the value of teamwork and benefit from diverse perspectives.					



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Year/Sem/Sec: I/II/D

Date: 03.10.2023

Report on Club Activity

“Technical Debate”

The Elektor club, conducted a Technical Debate program on Communication mannerisms for the juniors of First Year D section on 03.10.2023. The Technical Debate session facilitated the students to develop their acquaintance on and also communicative skills. During the session, students communicated with their seniors and asked several questions. It was aimed to enhance student's communication skill which serves the purpose of promoting intellectual growth, for success in an increasingly complex and interconnected world.

The students got a basic idea of how to express themselves in an optimistic, assertive, at the same time polite and professional manner. This would create a positive impact on their prospective employers when they face job interviews. The members responded to the student's questions and provided suggestions which was helpful to the students. The technical debate also explored futuristic technologies guidance on structuring arguments logically and anticipating counter arguments were given by the Seniors.



Providing the students with tips for effective technical debating

The technical debates proved to be a valuable opportunity for students to enhance their skills in presenting and defending technical arguments. At the end of this session Students were able to express their ideas of on topics with confidence which contribute to empowering their communication. The session concluded with a reflection period where participants and audience members shared their insights and perspectives gained from the debate. Discussions touched upon the importance of ethical considerations in technological advancements, the role of innovation in addressing global challenges, and the societal impacts of emerging technologies.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DETAILS OF CLUB ACTIVITY - 4

Name of The Activity	:	C Aptitude and Technical Connection
Name of the Club	:	Elektor Club
Number of Members Present	:	4
Activity executed (Year /Sem/ Sec)	:	II/III/C
Objective of the Activity	:	The objective of this activity is to strengthen students' aptitude skills while connecting logical reasoning with C programming concepts. It aims to enhance problem-solving abilities by integrating analytical thinking with programming logic.
Outcome of the Activity	:	Students are able to apply aptitude concepts to programming problems and improve their logical reasoning skills. The activity enhances coding efficiency, analytical ability, and readiness for competitive exams and technical interviews.



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PUDUCHERRY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name of the Staff in-charge/ Program Coordinator		Ms.B.Menaga			
Duration & Venue of the Activity					
Date	07.10.2023	Day	Saturday	Duration of Activity	2 Hours
Details of the Class					
Year	II	Semester /Section	III / C	Total strength of the class	61
PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT					
Foster Interest in Electronics The electronics club aims to spark and nurture a genuine interest in electronics and electrical engineering among its members. By engaging in discussions, demonstrations, and activities, the club encourages students to explore the exciting world of electronics, understand its relevance in everyday life, and inspire them to pursue this field further.					
Provide Hands-On Experience One of the key purposes of the club is to give members practical experience with electronic circuits, components, and devices. Through workshops, lab sessions, and DIY projects, students can apply theoretical knowledge, develop essential skills, and gain confidence in working with various electronic tools and equipment.					
Encourage Creativity and Innovation The club promotes a creative and innovative mindset by encouraging members to design and build their own electronic projects. These project-based activities not only enhance problem-solving abilities but also allow students to experiment with new ideas, technologies, and techniques, fostering a spirit of innovation.					
Create a Collaborative Environment Building a strong sense of community is central to the club's mission. The electronics club provides a supportive and collaborative environment where members can share their knowledge, skills, and experiences. Through group projects, peer-to-peer learning, and discussions, students learn the value of teamwork and benefit from diverse perspectives.					



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Year/Sem/Sec: II / III / C

Date: 07.10.2023

Report on Club Activity

“C Aptitude and Technical Connection”

The Elektor Club with a objective of enhancing the programming skills in C to the students conducted a C aptitude and Technical Connections session for the Second Year C section students on 7.10.2023. It aimed to enhance their skills on programming language, conducted a program on C aptitude and Technical Connections which equip students with the essential aptitude and technical skills necessary for success in C programming.

The session commenced with an introduction to C programming, emphasizing its significance as a fundamental language in computer science and software development. The members highlighted C's efficiency, versatility, and portability, making it suitable for developing operating systems, embedded systems, and applications where performance is critical.



Discussion with the students about the C aptitude through examples

As a outcome of this session, they are better prepared to respond to an interview questions. the session on C programming aptitude and its technical connection provided a valuable opportunity for participants to deepen their knowledge of the language, strengthen their programming skills, and appreciate its relevance in both software development and embedded systems. The session equipped the students with



Interaction with the Students during the Technical Connection session



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DETAILS OF CLUB ACTIVITY - 5

Name of The Activity	:	Technical Debate
Name of the Club	:	Elektor Club
Number of Members Present	:	4
Activity executed (Year /Sem/ Sec)	:	I/I/D
Objective of the Activity	:	The objective of this activity is to enhance students' technical literacy and presentation skills by engaging them in debates on emerging technologies. It aims to develop problem-solving skills and ethical understanding of technological impacts.
Outcome of the Activity	:	Students gain deeper insight into modern technologies and their real-world implications. The activity improves articulation, leadership qualities, and readiness to participate in professional and academic technical discussions.



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ENGINEERING COLLEGE
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PUDUCHERRY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name of the Staff in-charge/ Program Coordinator		Ms.B.Menaga			
Duration & Venue of the Activity					
Date	09.10.2023	Day	Monday	Duration of Activity	2 Hours
Details of the Class					
Year	I	Semester /Section	I / D	Total strength of the class	58
PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT					
Foster Interest in Electronics The electronics club aims to spark and nurture a genuine interest in electronics and electrical engineering among its members. By engaging in discussions, demonstrations, and activities, the club encourages students to explore the exciting world of electronics, understand its relevance in everyday life, and inspire them to pursue this field further.					
Provide Hands-On Experience One of the key purposes of the club is to give members practical experience with electronic circuits, components, and devices. Through workshops, lab sessions, and DIY projects, students can apply theoretical knowledge, develop essential skills, and gain confidence in working with various electronic tools and equipment.					
Encourage Creativity and Innovation The club promotes a creative and innovative mindset by encouraging members to design and build their own electronic projects. These project-based activities not only enhance problem-solving abilities but also allow students to experiment with new ideas, technologies, and techniques, fostering a spirit of innovation.					
Create a Collaborative Environment Building a strong sense of community is central to the club's mission. The electronics club provides a supportive and collaborative environment where members can share their knowledge, skills, and experiences. Through group projects, peer-to-peer learning, and discussions, students learn the value of teamwork and benefit from diverse perspectives.					



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Year/Sem/Sec: I / I / D

Date: 09.10.2023

Report on Club Activity

“Technical Debate”

The Elektor Club with an objective to facilitate the first-year students of B section on 09.10.2023 to gain basic knowledge on Debate and insist its importance in the future organized an Technical Debate . Juniors were skilled in Technical Debate language by second-year students through the Elektor club.

The session enhanced The Club members responded to the student’s questions and provided suggestions which was helpful to the students. Guidance on structuring arguments logically and anticipating counter arguments were given by the Seniors. The technical debates proved to be a valuable opportunity for students to enhance their skills in presenting and defending technical arguments Tips for delivering clear and persuasive arguments were shared by the club members. The Technical Debate session was a successful event. The members shared the valuable elements of a debate, including opening statements and closing arguments. The members insisted the importance of presenting their arguments in a clear, concise, and compelling manner,



Discussion with the students about the importance of presenting valid points during the debates

The club members shared their knowledge on how explore new ideas, challenge assumptions, and broaden their perspectives. The members insisted the importance of presenting their arguments in a clear, concise, and compelling manner, students enhance their ability to convey ideas effectively to diverse audiences, a skill that is essential in both academic and professional settings. Our club members responded to the student’s questions and provided suggestions which was helpful to the students.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DETAILS OF CLUB ACTIVITY – 6

Name of The Activity	:	Introduction to Programming Language
Name of the Club	:	Elektor Club
Number of Members Present	:	4
Activity executed (Year /Sem/ Sec)	:	I/I/A
Objective of the Activity	:	The objective of this activity is to introduce students to the fundamentals of programming languages and computational thinking. It focuses on familiarizing students with basic syntax, control structures, and problem-solving approaches.
Outcome of the Activity	:	Students gain a clear understanding of programming basics and logical flow of programs. The activity builds confidence in coding and prepares students for learning advanced programming languages and application development.



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PUDUCHERRY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name of the Staff in-charge/ Program Coordinator		Ms.B.Menaga			
Duration & Venue of the Activity					
Date	11.10.2023	Day	Wednesday	Duration of Activity	2 Hours
Details of the Class					
Year	I	Semester /Section	I / A	Total strength of the class	59
PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT					
<p>Foster Interest in Electronics The electronics club aims to spark and nurture a genuine interest in electronics and electrical engineering among its members. By engaging in discussions, demonstrations, and activities, the club encourages students to explore the exciting world of electronics, understand its relevance in everyday life, and inspire them to pursue this field further.</p> <p>Provide Hands-On Experience One of the key purposes of the club is to give members practical experience with electronic circuits, components, and devices. Through workshops, lab sessions, and DIY projects, students can apply theoretical knowledge, develop essential skills, and gain confidence in working with various electronic tools and equipment.</p> <p>Encourage Creativity and Innovation The club promotes a creative and innovative mindset by encouraging members to design and build their own electronic projects. These project-based activities not only enhance problem-solving abilities but also allow students to experiment with new ideas, technologies, and techniques, fostering a spirit of innovation.</p> <p>Create a Collaborative Environment Building a strong sense of community is central to the club's mission. The electronics club provides a supportive and collaborative environment where members can share their knowledge, skills, and experiences. Through group projects, peer-to-peer learning, and discussions, students learn the value of teamwork and benefit from diverse perspectives.</p>					

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Year/Sem/Sec: I / I / A

Date: 11.10.2023

Report on Club Activity

“Introduction to Programming Language”

The Elektor Club with a motive to, conducted a program on Introduction to Programming for the First Year A section Students on 11.10.2023. The club members equipped students with essential problem-solving and algorithmic thinking skills necessary for writing efficient and effective code. The session aimed to provide attendees with a basic understanding of programming concepts, regardless of their prior experience levels. Through interactive examples and hands-on exercises, students learned how to approach and solve programming challenges methodically. Through interactive examples and hands-on exercises, students learned how to approach and solve programs.

The session commenced with an overview of what programming languages are and their significance in modern technology.



Demonstrating simple programs to the students during the session



key basic concepts of programming

Attendees were introduced to the fundamental principles of programming, including The session also covered an introduction to different types of programming languages, including high-level languages like Python, Java, and C++. In conclusion, the Introduction to Programming Languages session organized by the club effectively introduced attendees to the fundamentals of coding and programming concepts. It served as a valuable starting point for beginners.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DETAILS OF CLUB ACTIVITY – 7

Name of The Activity	:	Internet of Things
Name of the Club	:	Elektor Club
Number of Members Present	:	4
Activity executed (Year /Sem/ Sec)	:	II /III /C
Objective of the Activity	:	The objective of this activity is to create awareness about Internet of Things (IoT) technology and its real-world applications. It aims to introduce students to interconnected devices, data communication, and smart system concepts.
Outcome of the Activity	:	Students gain knowledge of IoT architecture, components, and applications. The activity enhances understanding of smart technologies and encourages innovation in automation and connected systems.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name of the Staff in-charge/ Program Coordinator		Ms.B.Menaga			
Duration & Venue of the Activity					
Date	13.10.2023	Day	Friday	Duration of Activity	2 Hours
Details of the Class					
Year	II	Semester /Section	III / C	Total strength of the class	61
PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT					
<p>Foster Interest in Electronics The electronics club aims to spark and nurture a genuine interest in electronics and electrical engineering among its members. By engaging in discussions, demonstrations, and activities, the club encourages students to explore the exciting world of electronics, understand its relevance in everyday life, and inspire them to pursue this field further.</p>					
<p>Provide Hands-On Experience One of the key purposes of the club is to give members practical experience with electronic circuits, components, and devices. Through workshops, lab sessions, and DIY projects, students can apply theoretical knowledge, develop essential skills, and gain confidence in working with various electronic tools and equipment.</p>					
<p>Encourage Creativity and Innovation The club promotes a creative and innovative mindset by encouraging members to design and build their own electronic projects. These project-based activities not only enhance problem-solving abilities but also allow students to experiment with new ideas, technologies, and techniques, fostering a spirit of innovation.</p>					
<p>Create a Collaborative Environment Building a strong sense of community is central to the club's mission. The electronics club provides a supportive and collaborative environment where members can share their knowledge, skills, and experiences. Through group projects, peer-to-peer learning, and discussions, students learn the value of teamwork and benefit from diverse perspectives.</p>					



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Year/Sem/Sec: II / III / C

Date: 13.10.2023

Report on Club Activity

“Internet of Things”

The session on Internet of Things (IoT) conducted by the club was both informative and engaging, drawing a keen audience eager to delve into the world of interconnected devices and smart technologies. Held on 13.10.2023 for the Second Year C section Students, the session began with an overview of IoT concepts, emphasizing its impact on various industries and everyday life. An interactive session was conducted by the seniors about various real-world applications of IoT were discussed, including smart homes, healthcare monitoring, industrial automation, smart cities, and agriculture.

The Session on the Internet of Things provided students with valuable insights into one of the most transformative technologies of the modern era. Students gained a deeper understanding of various domains. A significant portion of the session and considerations associated with IoT deployment, such as data security, privacy concerns,



Future of IoT being explained during the session.

interoperability issues, and scalability.



Introduction to IoT and IoT based devices being given during the session

Overall, the IoT session organized by the club succeeded in its objective of fostering awareness and understanding of IoT technologies among its members. It served as a catalyst for future learning and collaboration, inspiring the students to explore new avenues for innovation and leveraging IoT to tackle contemporary challenges in their respective domains. The club aims to continue organizing such informative sessions to

empower its members with cutting-edge knowledge and skills in emerging technologies.



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DETAILS OF CLUB ACTIVITY – 8

Name of The Activity	:	Technical Quiz
Name of the Club	:	Elektor Club
Number of Members Present	:	4
Activity executed (Year /Sem/ Sec)	:	I / I / D
Objective of the Activity	:	The objective of this activity is to assess and enhance students' technical knowledge in a competitive and interactive manner. It encourages quick thinking, accuracy, and application of engineering concepts.
Outcome of the Activity	:	Students improve their technical awareness and problem-solving speed. The activity boosts confidence, teamwork, and motivation to learn emerging technologies and core subjects.



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Name of the Staff in-charge/ Program Coordinator		Ms.B.Menaga			
Duration & Venue of the Activity					
Date	27.10.2023	Day	Friday	Duration of Activity	1 Hour
Details of the Class					
Year	I	Semester /Section	I / D	Total strength of the class	57
PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT					
<p>Foster Interest in Electronics The electronics club aims to spark and nurture a genuine interest in electronics and electrical engineering among its members. By engaging in discussions, demonstrations, and activities, the club encourages students to explore the exciting world of electronics, understand its relevance in everyday life, and inspire them to pursue this field further.</p> <p>Provide Hands-On Experience One of the key purposes of the club is to give members practical experience with electronic circuits, components, and devices. Through workshops, lab sessions, and DIY projects, students can apply theoretical knowledge, develop essential skills, and gain confidence in working with various electronic tools and equipment.</p> <p>Encourage Creativity and Innovation The club promotes a creative and innovative mindset by encouraging members to design and build their own electronic projects. These project-based activities not only enhance problem-solving abilities but also allow students to experiment with new ideas, technologies, and techniques, fostering a spirit of innovation.</p> <p>Create a Collaborative Environment Building a strong sense of community is central to the club's mission. The electronics club provides a supportive and collaborative environment where members can share their knowledge, skills, and experiences. Through group projects, peer-to-peer learning, and discussions, students learn the value of teamwork and benefit from diverse perspectives.</p>					

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Year/Sem/Sec: I / I / D

Date: 27.10.2023

Report on Club Activity

“Technical Quiz”

The Elektor Club presented the Technical for students of First Year D section on 27.10.2023. The club members explained the students about the quiz and engaged them. The students were given questions from various fields. The Quiz aimed at assessing the students knowledge. This will also provide an opportunity to gain knowledge and equip their skills. Our members responded to the student’s questions and provided suggestions which was helpful to the students. The quiz was structured into multiple stages, starting with a preliminary round that featured a mix of multiple-choice questions and short answers. This initial phase served as a filter to identify the most knowledgeable participants, who would then proceed to the more challenging rounds.

Topics covered ranged from basic principles of engineering and technology to advanced concepts in computer science, electronics, and mechanical engineering. The purpose of a technical quiz to facilitate learning, assess knowledge and skills, foster healthy competition, and promote engagement and interaction among Students was



The members engaging the students during the quiz



Technical questions being asked to the students during the session

fulfilled by the members. In addition to the competitive aspect, the quiz also featured interactive segments where participants could engage with experts from the industry. The session also fostered a sense of community among the participants, encouraging collaboration and the exchange of ideas. These segments included Q&A sessions,

providing valuable insights into current trends and innovations.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DETAILS OF CLUB ACTIVITY – 9

Name of The Activity	:	Working of Sensors in Day-to-Day Life
Name of the Club	:	Elektor Club
Number of Members Present	:	4
Activity executed (Year /Sem/ Sec)	:	I /II /D
Objective of the Activity	:	The objective of this activity is to familiarize students with different types of sensors and their practical applications in everyday life. It aims to bridge theoretical knowledge with real-world technological usage.
Outcome of the Activity	:	Students understand the functioning and applications of sensors in common devices. The activity enhances practical awareness and interest in electronics, automation, and smart technologies.



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Name of the Staff in-charge/ Program Coordinator		Ms.B.Menaga			
Duration & Venue of the Activity					
Date	30.03.2024	Day	Saturday	Duration of Activity	2 Hours
Details of the Class					
Year	I	Semester /Section	II / D	Total strength of the class	57
PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT					
<p>Foster Interest in Electronics The electronics club aims to spark and nurture a genuine interest in electronics and electrical engineering among its members. By engaging in discussions, demonstrations, and activities, the club encourages students to explore the exciting world of electronics, understand its relevance in everyday life, and inspire them to pursue this field further.</p> <p>Provide Hands-On Experience One of the key purposes of the club is to give members practical experience with electronic circuits, components, and devices. Through workshops, lab sessions, and DIY projects, students can apply theoretical knowledge, develop essential skills, and gain confidence in working with various electronic tools and equipment.</p> <p>Encourage Creativity and Innovation The club promotes a creative and innovative mindset by encouraging members to design and build their own electronic projects. These project-based activities not only enhance problem-solving abilities but also allow students to experiment with new ideas, technologies, and techniques, fostering a spirit of innovation.</p> <p>Create a Collaborative Environment Building a strong sense of community is central to the club's mission. The electronics club provides a supportive and collaborative environment where members can share their knowledge, skills, and experiences. Through group projects, peer-to-peer learning, and discussions, students learn the value of teamwork and benefit from diverse perspectives.</p>					

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Year/Sem/Sec: I / II / D

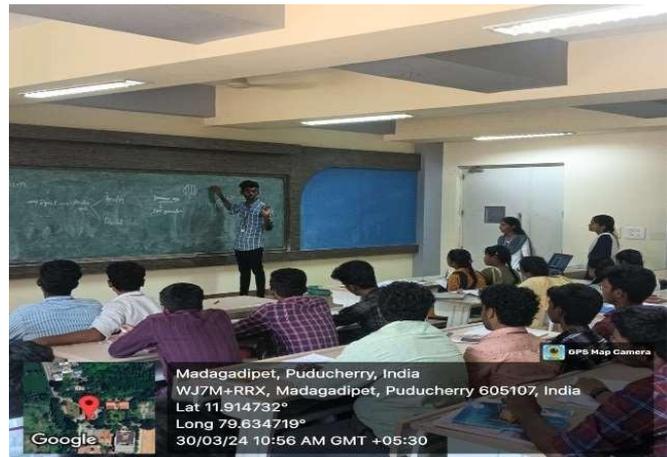
Date: 30.03.2024

Report on Club Activity

“Working of Sensors in Day-to-Day Life”

The Elektor club hosted a programme named “Working of Sensors in Day to Day Life” for first year D section students on 30.03.2024. The Students juniors gained essential knowledge and they come to know about the sensors Thus the session commenced with an overview of sensors, stating their fundamental purpose and importance in modern technology. Through illustrative examples and diagrams, we delved into the working principles underlying sensor functionality. The members highlighted numerous examples of sensors used in everyday gadgets and appliances, ranging from smartphones and smartwatches to home automation systems and automotive technology. The session also explored the integration of sensors in smart home technologies.

The members demonstrated how sensors contribute to creating smart environments by enabling automation and enhancing the efficiency of household systems. Examples included smart thermostats that optimize heating and cooling, smart lighting systems that adjust based on occupancy and ambient light, and smart appliances that can be controlled remotely.



Technical questions being asked to the students during the session

In conclusion, the session on Sensors in Day-to-Day Life successfully achieved its objective of educating participants about the ubiquitous presence and importance of sensors in modern technology. It provided valuable insights into the functioning and applications of various sensors, fostering a deeper understanding and appreciation of this essential aspect of contemporary life. The club looks forward to organizing more such informative sessions to continue enriching the knowledge and skills of its members.



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DETAILS OF CLUB ACTIVITY – 10

Name of The Activity	:	Working of Load Tester
Name of the Club	:	Elektor Club
Number of Members Present	:	4
Activity executed (Year /Sem/ Sec)	:	I /II /C
Objective of the Activity	:	The objective of this activity is to introduce students to the working principles and applications of load testers used in electrical and electronic systems. It aims to develop practical understanding of testing and measurement techniques.
Outcome of the Activity	:	Students gain knowledge of load testing procedures and equipment handling. The activity improves technical competence and prepares students for laboratory experiments and industrial applications.



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Name of the Staff in-charge/ Program Coordinator		Ms.B.Menaga			
Duration & Venue of the Activity					
Date	13.04.2024	Day	Saturday	Duration of Activity	2 Hours
Details of the Class					
Year	I	Semester /Section	II / C	Total strength of the class	54
PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT					
<p>Foster Interest in Electronics The electronics club aims to spark and nurture a genuine interest in electronics and electrical engineering among its members. By engaging in discussions, demonstrations, and activities, the club encourages students to explore the exciting world of electronics, understand its relevance in everyday life, and inspire them to pursue this field further.</p> <p>Provide Hands-On Experience One of the key purposes of the club is to give members practical experience with electronic circuits, components, and devices. Through workshops, lab sessions, and DIY projects, students can apply theoretical knowledge, develop essential skills, and gain confidence in working with various electronic tools and equipment.</p> <p>Encourage Creativity and Innovation The club promotes a creative and innovative mindset by encouraging members to design and build their own electronic projects. These project-based activities not only enhance problem-solving abilities but also allow students to experiment with new ideas, technologies, and techniques, fostering a spirit of innovation.</p> <p>Create a Collaborative Environment Building a strong sense of community is central to the club's mission. The electronics club provides a supportive and collaborative environment where members can share their knowledge, skills, and experiences. Through group projects, peer-to-peer learning, and discussions, students learn the value of teamwork and benefit from diverse perspectives.</p>					



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Year/Sem/Sec: I / II / C

Date: 13.04.2024

Report on Club Activity

“Working of Load Tester”

The Elektor club organized a programme named “Working of Load Tester” for first year C section Students on 13.04.2024. We enlightened the topic and shared our ideas. Our friends gained essential knowledge and they come to know the future technology. As we develop the projects of the future, we can work towards creating a better world long term. This means students can gain a core knowledge through this programme.

The session began with an introduction to the concept of load testing, explaining its role in evaluating the performance of software applications under various conditions. Load testing is a crucial aspect of performance testing that simulates real-world user load on software to ensure it can handle high traffic and function efficiently under stress. The objective is to identify performance bottlenecks, measure system behavior, and verify that the application meets specified performance criteria. The students expressed enthusiasm for further exploration and experimentation with load tester, inspired by the wide possibilities it offers for innovation and problem-solving.

The members detailed the working principles of load testers, which are specialized tools used to perform load testing. These tools simulate multiple users accessing the application simultaneously, allowing testers to observe how the system behaves under peak load conditions.

Overall, the session on the working of "Load Tester" provided valuable insights into the significance of load testing in software development. The students gained a thorough understanding of how load testers operate, the process of setting up and conducting load tests, and the best practices to follow for effective performance testing. The knowledge shared in the session is expected to enhance the participants' ability to ensure their applications can withstand high traffic and deliver a seamless user experience.



Demo session on the working of load tester being done at the session



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DETAILS OF CLUB ACTIVITY – 11

Name of The Activity	:	Introduction to Transparent Smartphones
Name of the Club	:	Elektor Club
Number of Members Present	:	4
Activity executed (Year /Sem/ Sec)	:	I /II /B
Objective of the Activity	:	The objective of this activity is to introduce students to the concept and emerging technology of transparent smartphones. It aims to create awareness of advanced display technologies and future mobile innovations.
Outcome of the Activity	:	Students gain insight into transparent display technology and its potential applications. The activity encourages curiosity, innovation, and awareness of future trends in mobile and communication technologies.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name of the Staff in-charge/ Program Coordinator		Ms.B.Menaga			
Duration & Venue of the Activity					
Date	13.04.2024	Day	Saturday	Duration of Activity	2 Hours
Details of the Class					
Year	I	Semester /Section	II / B	Total strength of the class	58
PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT					
Foster Interest in Electronics The electronics club aims to spark and nurture a genuine interest in electronics and electrical engineering among its members. By engaging in discussions, demonstrations, and activities, the club encourages students to explore the exciting world of electronics, understand its relevance in everyday life, and inspire them to pursue this field further.					
Provide Hands-On Experience One of the key purposes of the club is to give members practical experience with electronic circuits, components, and devices. Through workshops, lab sessions, and DIY projects, students can apply theoretical knowledge, develop essential skills, and gain confidence in working with various electronic tools and equipment.					
Encourage Creativity and Innovation The club promotes a creative and innovative mindset by encouraging members to design and build their own electronic projects. These project-based activities not only enhance problem-solving abilities but also allow students to experiment with new ideas, technologies, and techniques, fostering a spirit of innovation.					
Create a Collaborative Environment Building a strong sense of community is central to the club's mission. The electronics club provides a supportive and collaborative environment where members can share their knowledge, skills, and experiences. Through group projects, peer-to-peer learning, and discussions, students learn the value of teamwork and benefit from diverse perspectives.					



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Year/Sem/Sec: I / II / B

Date: 13.04.2024

Report on Club Activity

“Introduction to Transparent Smartphones”

The club conducted an informative session on the topic of Transparent Smartphones for the students of First Year B section on 13.04.2024 . The session aimed to introduce participants to the emerging technology of transparent smartphones, covering various aspects from technical feasibility to potential applications and market impact. The session was focusing on the revolutionary concept of transparent smartphones. This lecture aimed to introduce students to the innovative technology behind transparent smartphones, exploring their potential applications, benefits, and challenges. The members delved into the design elements and key components of transparent smartphones, including transparent displays, batteries, circuitry, and other essential hardware.

Key technological advancements enabling the development of transparent smartphones were discussed. The session delved into the role of transparent OLED (organic light-emitting diode) and LCD (liquid crystal display) screens, which are crucial for achieving the transparent effect. The use of transparent conductive materials, such as graphene and silver nanowires, was also explained, as these materials play a significant role in ensuring the functionality and durability of transparent screens.

The activity on Introduction to Transparent Smartphones provided students with valuable insights into one of the most exciting developments in mobile technology. Overall, the session provided a comprehensive introduction to the exciting world of transparent smartphones, highlighting the technological innovations, challenges, and potential applications that could shape the future of mobile devices. Participants left with a deeper understanding of the emerging technology and its potential to transform the way we interact with our smartphones.



The members discussing the technology behind the Transparent Smartphones

