SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

Puducherry - 605 107
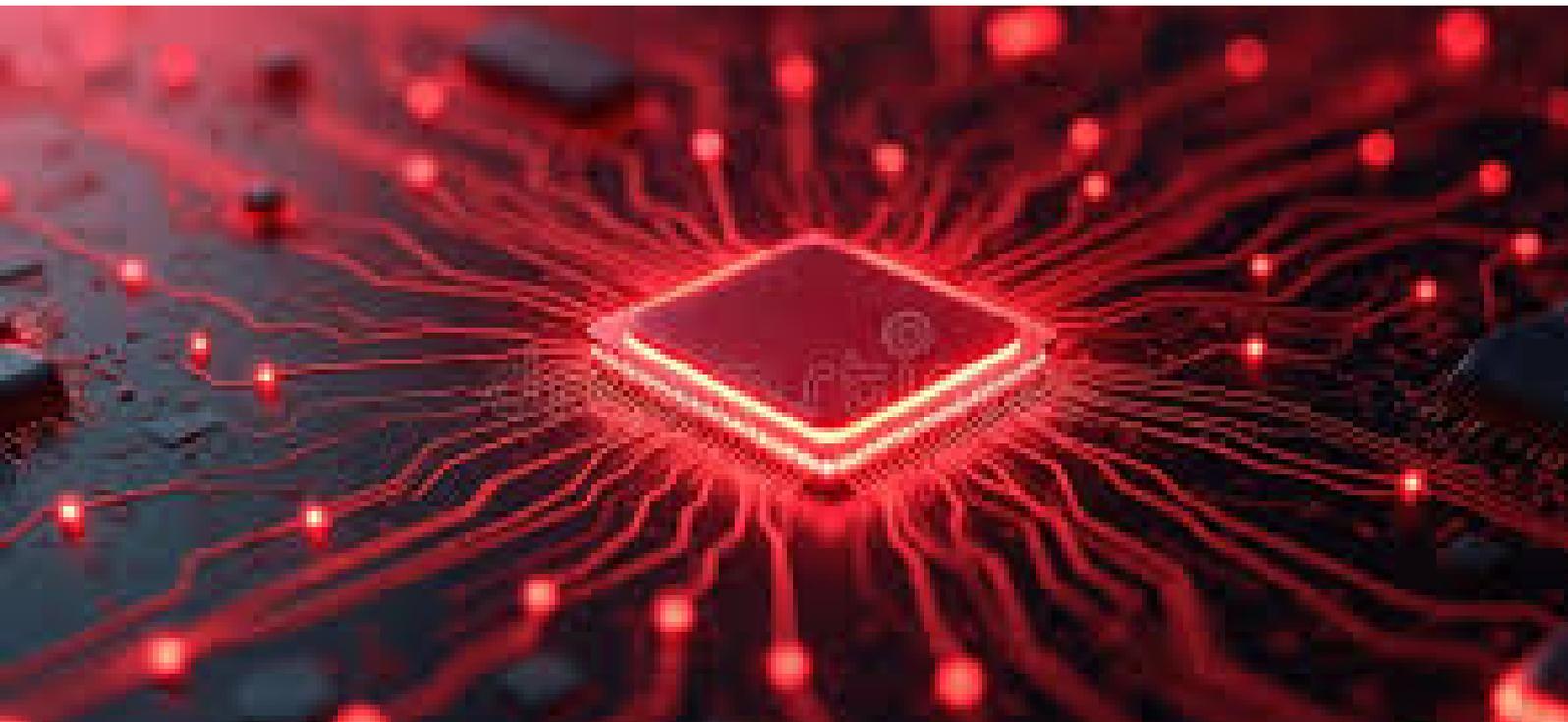
DEPARTMENT OF ELECTRONICS AND COMMUNICATION

ELEKTOR CLUB

A Technical endeavor to seek the unknown

ANNUAL REPORT

ACADEMIC YEAR : 2022 -2023

Submitted By
Ms.R.Priya
Assistant Professor/ECE

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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	**SUBISKHA**	**MUTHU SELVAN**
President	**Vice President**	**Secratory**
II Year	II Year	I Year

MOHAMMED SAJID	**SWATHI S**	**SRI LAKSHMI**
Technical Lead	**Creative Head**	**Publicity Head**
I Year	I Year	I Year

List of Club Activities Conducted

S.no	Title of the Club Activity	Date of Conduction	Year/Sem/Sec	No.of Participants
1	Resume building and self-introduction	12.02.2022	II / III /A/B/C	187
2	Logo Contest	26.02.2022	II / III /A/B/C	140
3	Communication Mannerism	05.03.2022	II / III /A/B/C	130
4	Professional Training	05.03.2022	II / III /A/B/C	109
5	Programming skills in C	19.03.2022	II / III /A/B/C	169
6	Vision on Arduino	26.03.2022	II / III /A/B/C	185
7	Robotic Process Automation	26.05.2022	II / IV /A/B/C	192
8	Retro Fitting for Electric Vehicles	08.07.2022	II / IV /A/B/C	133
9	Circuit Framing	09.07.2022	II / IV /A/B/C	65
10	Circuit Framing	09.07.2022	I / II /A/B/C	209
11	Programming languages	29.07.2022	II / IV /A/B/C	68
12	Programming languages	30.07.2022	I / II /A/B/C	125
13	Cybernetics	06.08.2022	I / II /A/B/C	183

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DETAILS OF CLUB ACTIVITY - 1

Name of The Activity	:	Resume building and self-introduction
Name of the Club	:	Elektor Club
Number of Members Present	:	5
Activity executed (Year /Sem/ Sec)	:	II / III /A/B/C
Objective of the Activity	:	To enhance students' ability to present their academic and professional profile effectively. This activity aims to guide students in preparing structured resumes and developing confident self-introduction skills required for interviews and professional interactions.
Outcome of the Activity	:	Students will be able to prepare professional resumes and introduce themselves confidently in academic and corporate environments. The activity improves communication skills, self-confidence, and readiness for placements and career opportunities.

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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	12.02.2022	**Day**	Saturday	**Duration of Activity**	2 Hours
Details of the Class					
Year	II	**Semester /Section**	III /A , B, C	**No.of Participants**	187

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.

Year/Sem/Sec: II / III /A/B/C   **Date: 12.02.2022**

Report on Club Activity

"Resume building and self-introduction"

On February 12, 2022 , the Elektor Club under the siege of Department of Electronics and Communication Engineering held a club activity on the title " **Resume building and self-introduction** " was organized to prepare students for professional and career-oriented challenges. The program focused on enabling students to understand the importance of presenting their academic achievements, skills, and personal attributes in a structured and professional manner.

The session began with an orientation on the significance of resumes in career development. Students were introduced to various resume formats, essential sections, and industry expectations, helping them recognize the role of resumes as a key tool in job applications and professional networking.

Special emphasis was placed on identifying individual strengths, technical skills,

Introduction to career planning and placement strategies.

certifications, and extrac urricular achievements. Students were guided on how to highlight their abilities effectively while maintaining clarity, accuracy, and professionalism in resume content.

Overall, the activity enhanced students' confidence, communication abilities, and career readiness. It significantly contributed to improving employability skills and preparing students for internships, placements, and professional interactions.

Guidance on interview skills, aptitude tests, and group discussions.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DETAILS OF CLUB ACTIVITY - 2

Name of The Activity	:	Logo Contest
Name of the Club	:	Elektor Club
Number of Members Present	:	2
Activity executed (Year /Sem/ Sec)	:	II / III /A/B/C
Objective of the Activity	:	The objective of this activity is to enhance students' creativity, imagination, and design thinking skills. A logo serves as a pictorial representation of an organization's vision and goals, motivating students to transform abstract ideas into meaningful and visually appealing designs.
Outcome of the Activity	:	Students will be able to express their ideas effectively through creative designs and improve their visual communication skills. The activity nurtures innovation, encourages original thinking, and initiates an entrepreneurial mindset among students by understanding branding and identity creation.

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Name of the Staff in-charge/ Program Coordinator			Ms.B.Menaga			
Duration & Venue of the Activity						
Date	26.02.2022	**Day**	Saturday	**Duration of Activity**	2 Hours	
Details of the Class						
Year	II	**Semester /Section**	III /A, B, C	**No.of Participants**		140
PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT						

Foster Interest in Electronics

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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

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Create a Collaborative Environment

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Year/Sem/Sec: II / III /A/B/C　　　　　　　　　　　　　**Date: 26.02.2022**

### Report on Club Activity

"Logo Contest"

On February 26, 2022, the Elektor Club under the siege of Department of Electronics and Communication Engineering held a club activity on the title **" Logo Contest "** was conducted to promote creativity, innovation, and visual thinking among students. The activity aimed to provide a platform for students to express their ideas through graphical design while understanding the importance of visual identity.

Students were introduced to the concept of logos as a representation of vision, mission, and values. The session highlighted how logos play a vital role in branding, recognition, and communication for organizations and enterprises.

Brainstorming session on creative ideas for logo design.

Participants were encouraged to think creatively and develop original designs using appropriate symbols, colors, and typography. The activity allowed students to explore various design tools and techniques to enhance the quality of their work.
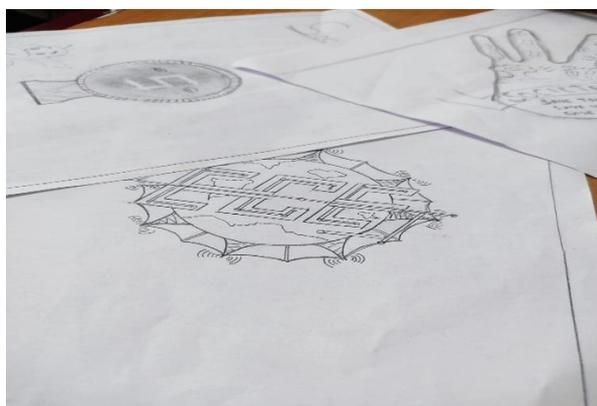
Display of selected logos to highlight students' innovative design skills.

Evaluation criteria such as creativity, relevance, clarity, and presentation were explained to ensure transparency and fairness. This helped students understand professional standards in design evaluation.The Logo Contest enhanced students' creative confidence, design skills, and visual communication abilities. It also initiated entrepreneurial thinking by introducing branding concepts relevant to startups and business development.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DETAILS OF CLUB ACTIVITY - 3

Name of The Activity	:	Communication Mannerism
Name of the Club	:	Elektor Club
Number of Members Present	:	2
Activity executed (Year /Sem/ Sec)	:	II / III /A/B/C
Objective of the Activity	:	The objective of this activity is to improve students' verbal, non-verbal, and interpersonal communication skills required in professional and social environments. Emphasis is placed on developing proper etiquette, body language, and effective communication behavior.
Outcome of the Activity	:	Students will be able to communicate confidently with improved mannerisms and professional conduct. The activity enhances public speaking abilities, interpersonal skills, and overall personality development, preparing students for academic presentations and workplace interactions.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name of the Staff in-charge/ Program Coordinator	Ms.B.Menaga			
Duration & Venue of the Activity				
Date	05.03.2022	**Day**	Saturday	**Duration of Activity**	2 Hours
Details of the Class				
Year	II	**Semester /Section**	III /A, B, C	**No.of Participants**	130

PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT

Foster Interest in Electronics
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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
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Create a Collaborative Environment
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Year/Sem/Sec: II / III /A/B/C   **Date: 05.03.2022**

Report on Club Activity

"Communication Mannerism"

On March 05, 2022, the Elektor Club under the siege of Department of Electronics and Communication Engineering held a club activity on the title **" Communication Mannerism "** to develop effective communication skills essential for academic success and professional growth. The program emphasized the role of communication in building confidence and personality.

Students were introduced to verbal and non-verbal communication techniques, including body language, facial expressions, eye contact, and posture. The importance of professional etiquette and respectful interaction was highlighted.

The activity focused on improving speaking skills, listening abilities, and clarity of expression. Students were trained to communicate effectively in formal and informal settings such as presentations, interviews, and group discussions.Interactive methods such as

Introduction to verbal and non-verbal communication techniques.

role-plays, demonstrations, and real-life examples were used to help students understand communication barriers and ways to overcome them.

Students actively participated in communication exercises that encouraged self-reflection and improvement. Constructive feedback helped them recognize their strengths and areas for development.The activity resulted in improved

Explanation of the importance of body language, posture, and tone modulation.

confidence, professional behavior, and interpersonal skills. Students became more effective communicators, better prepared to interact in academic, social, and workplace environments.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DETAILS OF CLUB ACTIVITY - 4

Name of The Activity	:	Professional Training
Name of the Club	:	Elektor Club
Number of Members Present	:	2
Activity executed (Year /Sem/ Sec)	:	II / III /A/B/C
Objective of the Activity	:	The objective of this activity is to bridge the gap between academic learning and industry expectations by exposing students to professional work culture, workplace ethics, and essential employability skills. It aims to prepare students for real-world challenges.
Outcome of the Activity	:	Students acquire industry-oriented knowledge and professional competence. The activity enhances problem-solving abilities, adaptability, and confidence, thereby improving career readiness and employability.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name of the Staff in-charge/ Program Coordinator				Ms.B.Menaga	
Duration & Venue of the Activity					
Date	05.03.2022	**Day**	Saturday	**Duration of Activity**	2 Hours
Details of the Class					
Year	II	**Semester /Section**	III /A, B, C	**No.of Participants**	109
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: II / III /A/B/C   **Date: 05.03.2022**

Report on Club Activity

"Professional Training"

On March 05, 2022, the Elektor Club under the siege of Department of Electronics and Communication Engineering held a club activity on the title **" Professional Training "** with an or the professional world by bridging the gap between academic knowledge and industry expectations. The program aimed to expose students to real-world work environments and professional standards.

The training sessions focused on developing essential workplace skills such as time management, teamwork, leadership, and ethical behavior. Students were introduced to organizational structures, professional responsibilities, and workplace discipline.

Emphasis was given to improving soft skills including communication, adaptability, decision-making, and problem-solving. These skills are critical for sustaining professional growth and effective collaboration in the

Introduction to workplace ethics and professional conduct.

workplace.

Industry-oriented case studies and practical examples were discussed to help students understand real-time challenges and solutions.. These activities helped students identify their strengths and areas requiring improvement. Overall, the Professional Training activity enhanced students' professional competence, confidence, and career awareness. It significantly improved employability skills and prepared students to face workplace challenges successfully

Explanation of organizational culture, responsibilities, and team dynamics.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DETAILS OF CLUB ACTIVITY - 5

Name of The Activity	:	Programming skills in C
Name of the Club	:	Elektor Club
Number of Members Present	:	2
Activity executed (Year /Sem/ Sec)	:	II / III /A/B/C
Objective of the Activity	:	The objective of this activity is to build a strong foundation in programming concepts using the C language. It aims to develop logical thinking, structured programming skills, and analytical problem-solving abilities among students.
Outcome of the Activity	:	Students will be able to write, analyze, debug, and execute C programs efficiently. The activity strengthens logical reasoning and prepares students for advanced programming languages and core technical subjects.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name of the Staff in-charge/ Program Coordinator				Ms.B.Menaga		
Duration & Venue of the Activity						
Date	19.03.2022	**Day**	Saturday	**Duration of Activity**	2 Hours	
Details of the Class						
Year	II	**Semester /Section**	III /A, B, C	**No.of Participants**		169
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

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Encourage Creativity and Innovation

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Create a Collaborative Environment

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Year/Sem/Sec: II / III /A/B/C   **Date: 19.03.2022**

Report on Club Activity

"Programming skills in C"

On March 19, 2022, the Elektor Club under the siege of Department of Electronics and Communication Engineering held a club activity on the title **" Programming skills in C "** to provide students with a strong foundation in computer programming and algorithmic thinking. The program aimed to develop logical reasoning and structured problem-solving skills essential for technical disciplines.

Students were introduced to fundamental programming concepts such as variables, data types, operators, control structures, functions, arrays, and pointers. The importance of writing efficient and readable code was emphasized throughout the sessions.

Guidance on debugging, error identification, and program optimization.

Hands-on coding sessions formed a major part of the activity, allowing students to apply theoretical concepts in practical scenarios. Students practiced writing programs, understanding execution flow, and interpreting program output.

Introduction to programming concepts and logical problem-solving techniques.

The activity also focused on debugging techniques, error analysis, and logical correction of programs. Students learned how to identify syntax and logical errors, improving their analytical thinking and troubleshooting skills.

As a result, students developed confidence in writing and executing C programs independently. The activity strengthened their logical reasoning, analytical abilities, and preparedness for advanced programming and technical subjects

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DETAILS OF CLUB ACTIVITY - 6

Name of The Activity	:	Vision on Arduino
Name of the Club	:	Elektor Club
Number of Members Present	:	2
Activity executed (Year /Sem/ Sec)	:	II / III /A/B/C
Objective of the Activity	:	The objective of this activity is to introduce students to Arduino-based embedded systems and microcontroller applications through hands-on learning. It encourages innovation, experimentation, and practical understanding of automation and control systems.
Outcome of the Activity	:	Students gain practical experience in Arduino programming, sensor interfacing, and project development. The activity enhances technical competence, creativity, and interest in embedded systems, IoT, and automation technologies.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name of the Staff in-charge/ Program Coordinator				Ms.B.Menaga	
Duration & Venue of the Activity					
Date	26.03.2022	**Day**	Saturday	**Duration of Activity**	2 Hours
Details of the Class					
Year	II	**Semester /Section**	III /A, B, C	**No.of Participants**	185
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

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Year/Sem/Sec: II / III /A/B/C   **Date: 26.03.2022**

Report on Club Activity

"Vision on Arduino"

On March 26, 2022, the Elektor Club under the siege of Department of Electronics and Communication Engineering held a club activity on the title **" Vision on Arduino "** to introduce students to the fundamentals of embedded systems and microcontroller-based applications. The program aimed to provide practical exposure to Arduino platforms widely used in automation and smart system development.

Students were introduced to Arduino hardware architecture, development boards, and programming environments. The session explained the role of microcontrollers in controlling electronic systems and processing real-time data.

Practical demonstrations and lab sessions were conducted on interfacing sensors, actuators, and electronic modules with Arduino boards. Students learned to read sensor data, control devices, and implement basic automation logic. The activity encouraged project-based learning, allowing students

Introduction to Arduino boards and embedded system fundamentals.

Explanation of microcontroller architecture, programming, and applications.

to design and develop small Arduino-based applications. This approach promoted creativity, innovation, and hands-on technical experience. Students were also trained in troubleshooting techniques, circuit connections, and safe handling of electronic components.

Overall, the Vision on Arduino activity enhanced students' technical proficiency, practical electronics skills, and interest in emerging technologies. It motivated students to explore advanced areas such as robotics, IoT, and embedded system design

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DETAILS OF CLUB ACTIVITY - 7

Name of The Activity	:	Robotic Process Automation
Name of the Club	:	Elektor Club
Number of Members Present	:	2
Activity executed (Year /Sem/ Sec)	:	II / IV /A/B/C
Objective of the Activity	:	The objective of this activity is to create awareness about Robotic Process Automation and its growing importance in industry and business operations. It aims to familiarize students with automation tools, workflows, and digital process optimization.
Outcome of the Activity	:	Students develop an understanding of automation concepts and RPA tools. The activity improves technical efficiency, problem-solving skills, and awareness of career opportunities in automation, artificial intelligence, and digital transformation domains.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name of the Staff in-charge/ Program Coordinator			Ms.B.Menaga		
Duration & Venue of the Activity					
Date	26.05.2022	**Day**	Saturday	**Duration of Activity**	2 Hours
Details of the Class					
Year	II	**Semester /Section**	IV /A, B, C	**No.of Participants**	192
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.

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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

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SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)
Puducherry - 605 107

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Year/Sem/Sec: II / IV /A/B/C   **Date: 26.05.2022**

Report on Club Activity

"Robotic Process Automation"

On May 26, 2022, the Elektor Club under the siege of Department of Electronics and Communication Engineering held a club activity on the title **" Robotic Process Automation "** to introduce students to the concept of automation in modern industries and business environments. The program aimed to help students understand how repetitive, rule-based tasks can be automated using software bots, thereby improving efficiency and accuracy in organizational processes.

The activity began with an overview of automation technologies and the role of RPA in digital transformation. Students were introduced to the fundamentals of RPA, including workflow automation, process mapping, and the functioning of software robots in various domains such as banking, healthcare, and information technology.

Special emphasis was placed on understanding real-world business processes that can be

Introduction to automation technologies and the concept of RPA.

automated, such as data entry, report generation, email handling, and transaction processing. This helped students recognize the practical relevance and growing demand for automation skills in industry.

Demonstration of RPA tools and workflow design for real-world processes.

Overall, the RPA activity significantly enhanced students' understanding of automation technologies and their applications. It developed analytical thinking, technical awareness, and career readiness, motivating students to explore opportunities in automation, artificial intelligence, and digital process management.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DETAILS OF CLUB ACTIVITY - 8

Name of The Activity	:	Retro Fitting for Electric Vehicles
Name of the Club	:	Elektor Club
Number of Members Present	:	2
Activity executed (Year /Sem/ Sec)	:	II / IV /A/B/C
Objective of the Activity	:	The objective of this activity is to promote awareness of electric vehicle technology and sustainable transportation systems. It introduces students to the concepts and methodologies involved in converting conventional vehicles into electric vehicles.
Outcome of the Activity	:	Students gain knowledge of electric vehicle components, retrofitting techniques, and safety considerations. The activity encourages eco-friendly thinking and motivates students to explore careers and innovations in green energy and sustainable mobility.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name of the Staff in-charge/ Program Coordinator			Ms.B.Menaga		
Duration & Venue of the Activity					
Date	08.07.2022	**Day**	Friday	**Duration of Activity**	2 Hours
Details of the Class					
Year	II	**Semester /Section**	IV /A, B, C	**No.of Participants**	133
PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT					

Foster Interest in Electronics
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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.

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Create a Collaborative Environment
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Year/Sem/Sec: II / IV /A/B/C   **Date: 08.07.2022**

Report on Club Activity

"Retro Fitting for Electric Vehicles"

On July 08, 2022, the Elektor Club under the siege of Department of Electronics and Communication Engineering held a club activity on the title **" Retro Fitting for Electric Vehicles "** to create awareness among students about sustainable transportation technologies and the growing importance of electric mobility. The program aimed to introduce the concept of converting conventional internal combustion engine vehicles into electric vehicles as a solution to environmental pollution and fuel dependency.

The activity began with an overview of electric vehicle technology and the need for eco-friendly transportation systems. Students were introduced to the fundamentals of electric mobility, including energy efficiency, emission reduction, and government initiatives promoting electric vehicles.
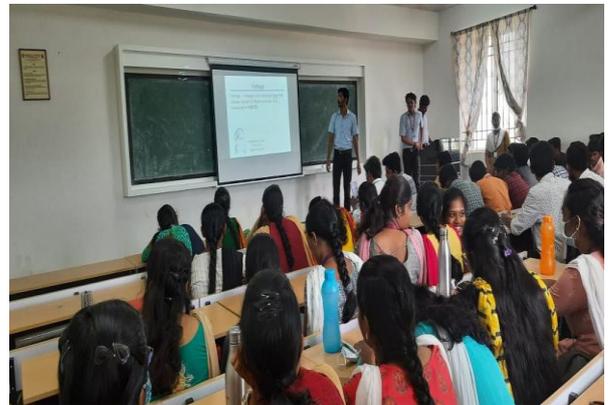
Introduction to electric vehicle technology and sustainable mobility.

Detailed discussions were held on the major components involved in electric vehicle retrofitting, such as electric motors, battery packs, motor controllers, power electronics, and charging systems.

Discussion on safety standards, regulatory compliance, and performance optimization.

Practical demonstrations and visual illustrations were used to explain the retrofitting process, safety standards, and regulatory requirements. Overall, the activity enhanced students' understanding of electric vehicle technology and sustainable mobility. It motivated students to explore careers and innovations in green energy, electric transportation, and environmentally responsible engineering practices.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DETAILS OF CLUB ACTIVITY - 9

Name of The Activity	:	Circuit Framing
Name of the Club	:	Elektor Club
Number of Members Present	:	2
Activity executed (Year /Sem/ Sec)	:	II / IV /A/B/C
Objective of the Activity	:	The objective of this activity is to strengthen students' understanding of electronic components and circuit design principles through hands-on practice. It focuses on developing practical skills in circuit assembly, testing, and troubleshooting.
Outcome of the Activity	:	Students are able to design, assemble, and analyze electronic circuits effectively. The activity enhances practical electronics knowledge and prepares students for advanced electronics experiments and project development.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name of the Staff in-charge/ Program Coordinator	Ms.B.Menaga				
Duration & Venue of the Activity					
Date	09.07.2022	**Day**	Saturday	**Duration of Activity**	2 Hours
Details of the Class					
Year	II	**Semester /Section**	IV /A, B, C	**No.of Participants**	65

PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT

Foster Interest in Electronics
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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
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Year/Sem/Sec: II / IV /A/B/C   **Date: 09.07.2022**

Report on Club Activity

"Circuit Framing"

On July 09, 2022, the Elektor Club under the siege of Department of Electronics and Communication Engineering held a club activity on the title **" Circuit Framing "** to strengthen students' understanding of basic and advanced electronic circuit concepts through practical exposure. The program aimed to help students connect theoretical knowledge of electronics with real-world circuit design and implementation.

The activity began with an introduction to fundamental electronic components such as resistors, capacitors, diodes, transistors, and integrated circuits. Students were guided on the function, characteristics, and applications of these components in electronic systems.

Emphasis was placed on circuit design principles, including schematic representation,

Introduction to electronic components and fundamental circuit concepts.

Explanation of circuit design principles, component selection, and schematics.

component selection, and layout planning. Students were encouraged to understand how different components interact within a circuit to achieve desired outputs.Overall, the Circuit Framing activity enhanced students' practical electronics skills, analytical thinking, and confidence in hardware design. It prepared students for advanced electronics experiments, project work, and careers in electronics and embedded systems.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DETAILS OF CLUB ACTIVITY - 10

Name of The Activity	:	Circuit Framing
Name of the Club	:	Elektor Club
Number of Members Present	:	4
Activity executed (Year /Sem/ Sec)	:	I / II/A/B/C
Objective of the Activity	:	To provide practical knowledge of electronic circuit design and implementation. This activity aims to help students understand the functioning of electronic components and how they are interconnected to form working circuits through hands-on learning.
Outcome of the Activity	:	Students will be able to design, assemble, and test basic electronic circuits with confidence. The activity enhances practical electronics skills, improves troubleshooting ability, and strengthens the foundation required for advanced electronic and hardware-based projects.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name of the Staff in-charge/ Program Coordinator				Ms.B.Menaga	
Duration & Venue of the Activity					
Date	09.07.2022	**Day**	Saturday	**Duration of Activity**	2 Hours
Details of the Class					
Year	I	**Semester /Section**	II /A, B, C	**No.of Participants**	209

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.

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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.

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Year/Sem/Sec: I / II/A/B/C   **Date: 09.07.2022**

Report on Club Activity

"Circuit Framing"

On July 09, 2022, the Elektor Club under the siege of Department of Electronics and Communication Engineering held a club activity on the title **" Circuit Framing"** .It is was designed with the primary objective of strengthening students' conceptual understanding and practical knowledge of electronic circuits. In modern engineering education, hands-on exposure to circuit design and implementation plays a vital role in bridging the gap between theoretical learning and real-world applications.

The program began with a comprehensive introduction to fundamental electronic components, including resistors, capacitors, inductors, diodes, transistors, and integrated circuits. Students were guided through the working principles, specifications, and real-time applications of each component. This foundational knowledge helped students understand how

Guidance on using instruments like multimeters and power supplies to validate circuits.

Group discussion on optimizing circuit performance and understanding signal behavior.

individual components function and contribute to the overall behavior of an electronic circuit. Overall, the Circuit Framing activity significantly contributed to the development of practical electronics skills, problem-solving abilities, and technical confidence among students. The knowledge and experience gained through this activity prepared students for advanced electronics experiments, mini-projects, and future careers in electronics, embedded systems, and related engineering fields.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DETAILS OF CLUB ACTIVITY - 11

Name of The Activity	:	Programming languages
Name of the Club	:	Elektor Club
Number of Members Present	:	2
Activity executed (Year /Sem/ Sec)	:	II / IV/A/B/C
Objective of the Activity	:	The objective of this activity is to expose students to multiple programming languages and paradigms used in modern software development. It aims to improve adaptability, logical reasoning, and computational problem-solving skills.
Outcome of the Activity	:	Students gain familiarity with various programming languages and develop confidence in coding. The activity enhances problem-solving abilities and prepares students for software development, IT careers, and emerging technology roles.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name of the Staff in-charge/ Program Coordinator			Ms.B.Menaga		
Duration & Venue of the Activity					
Date	29.07.2022	**Day**	Friday	**Duration of Activity**	2 Hours
Details of the Class					
Year	II	**Semester /Section**	IV /A, B, C	**No.of Participants**	68
PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT					

Foster Interest in Electronics

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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

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Year/Sem/Sec: : II / IV/A/B/C   **Date: 29.07.2022**

Report on Club Activity

"Programming languages"

On July 29, 2022, the Elektor Club under the siege of Department of Electronics and Communication Engineering held a club activity on the title **" Programming languages"** was organized to strengthen students' understanding of software development concepts and enhance their computational thinking skills. In the present digital era, knowledge of multiple programming languages is essential for solving real-world problems across engineering, technology, and interdisciplinary domains. This activity aimed to expose students to diverse programming environments and improve their adaptability to evolving technological requirements.

Introduction to multiple programming languages and their applications in engineering.
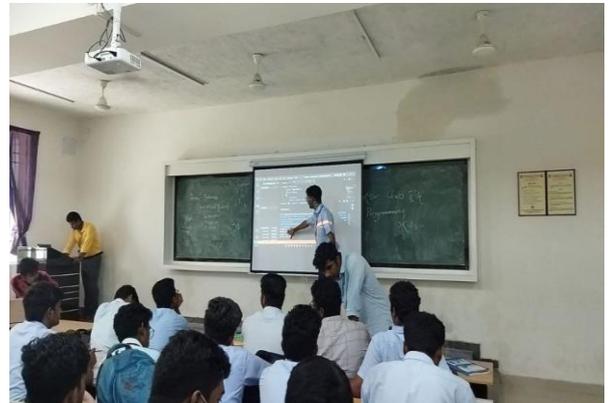
The program introduced students to different programming languages and paradigms, highlighting their applications, strengths, and

Practical sessions demonstrating real-world applications of programming skills.

limitations. Emphasis was placed on understanding syntax structures, logic formulation, and problem-solving approaches rather than rote memorization of code. Overall, the Programming Languages activity enhanced students' coding proficiency, logical reasoning, and adaptability to different programming environments. It prepared students for academic projects, competitive programming, internships, and careers in software development, information technology, and emerging digital technologies.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DETAILS OF CLUB ACTIVITY - 12

Name of The Activity	:	Programming languages
Name of the Club	:	Elektor Club
Number of Members Present	:	4
Activity executed (Year /Sem/ Sec)	:	I / II /A/B/C
Objective of the Activity	:	The objective of this activity is to provide students with comprehensive exposure to different programming languages and their practical applications in real-world problem solving. It aims to strengthen logical thinking, algorithmic skills, and adaptability by enabling students to understand syntax, programming structures, and programming paradigms used across various software development environments.
Outcome of the Activity	:	Students will be able to analyze problems and implement solutions using appropriate programming languages. The activity enhances coding proficiency, logical reasoning, and confidence in software development, thereby preparing students for academic projects, competitive programming, and careers in the software and IT industries.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name of the Staff in-charge/ Program Coordinator			Ms.B.Menaga		
Duration & Venue of the Activity					
Date	30.07.2022	**Day**	Saturday	**Duration of Activity**	2 Hours
Details of the Class					
Year	I	**Semester /Section**	II /A, B, C	**No.of Participants**	125

PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT

Foster Interest in Electronics

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Year/Sem/Sec: : I / II /A/B/C   **Date: 30.07.2022**

Report on Club Activity

"Programming languages"

On July 30, 2022, the Elektor Club under the siege of Department of Electronics and Communication Engineering held a club activity on the title **" Programming languages"**. The Programming Languages activity was conducted to provide students with a comprehensive understanding of various programming languages and their applications in solving complex technical problems. In today's technology-driven world, being proficient in multiple languages enables students to adapt to different software platforms and enhances their ability to tackle diverse computational challenges.

The program introduced students to core programming concepts, including data types, control structures, functions, object-oriented principles, and modular programming. Students were encouraged to understand the logic behind algorithms and the systematic approach required to implement solutions efficiently.

Guidance on debugging techniques, code optimization, and error handling.

Explanation of syntax, logical structures, and problem-solving approaches.

A significant focus of the activity was on practical application. Students participated in hands-on coding exercises, worked on small projects, and practiced implementing algorithms in different programming languages. Overall, this activity strengthened students' technical competence, problem-solving abilities, and coding confidence. It prepared them to approach complex projects, collaborate on software development tasks, and pursue careers in IT, software engineering, and emerging technological fields, while also fostering a mindset of continuous learning and adaptability

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DETAILS OF CLUB ACTIVITY - 13

Name of The Activity	:	Cybernetics
Name of the Club	:	Elektor Club
Number of Members Present	:	4
Activity executed (Year /Sem/ Sec)	:	I / II /A/B/C
Objective of the Activity	:	The objective of this activity is to introduce students to the interdisciplinary field of cybernetics, integrating concepts of robotics, control systems, artificial intelligence, and human-machine interaction. It encourages innovation and analytical thinking in intelligent systems.
Outcome of the Activity	:	Students gain an understanding of cyber-physical systems and intelligent automation technologies. The activity enhances analytical, technical, and research-oriented skills, preparing students for advanced studies and careers in robotics, automation, and artificial intelligence.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name of the Staff in-charge/ Program Coordinator				Ms.B.Menaga	
Duration & Venue of the Activity					
Date	06.08.2022	**Day**	Saturday	**Duration of Activity**	2 Hours
Details of the Class					
Year	I	**Semester /Section**	II /A, B, C	**No.of Participants**	183

PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT

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Year/Sem/Sec: : I / II /A/B/C   **Date: 06.08.2022**
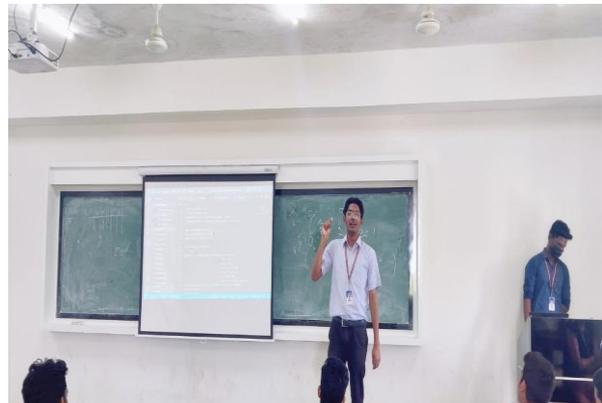
Report on Club Activity

"Cybernetics"

On August 06, 2022, the Elektor Club under the siege of Department of Electronics and Communication Engineering held a club activity on the title **" Cybernetics"**. The Cybernetics activity was organized to introduce students to the interdisciplinary field of cybernetics, which combines elements of control systems, robotics, artificial intelligence, and human-machine interaction. The program aimed to provide students with a conceptual understanding of how intelligent systems operate, respond to feedback, and make autonomous decisions in dynamic environments.

Introduction to the interdisciplinary field of cybernetics and intelligent systems.

The activity began with an overview of cybernetics principles, including feedback loops, system modeling, signal processing, and control mechanisms. Students were introduced to theoretical frameworks that govern the behavior of both natural and engineered systems, establishing a strong foundation for understanding complex automated systems.

Explanation of feedback loops, control mechanisms, and system modeling principles.

Emphasis was placed on the practical applications of cybernetics in modern engineering and technology. Overall, the Cybernetics activity enhanced students' understanding of interdisciplinary engineering concepts, improved their technical and analytical skills, and stimulated interest in emerging technologies such as robotics, AI, and automation. It prepared students for advanced studies, innovative project work, and potential careers in technology-driven fields.