



VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN

[AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI]

Elayampalayam – 637 205, Tiruchengode, Namakkal Dt., Tamil Nadu.



Research Club Performance Index

AY: 2024–2025

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Department of Computer Science and Engineering.

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Department of Biotechnology

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Department of Computer Science and Technology

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Department of Electrical and Electronics Engineering

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Alan Turing Research Club

Department of Computer Science and Engineering

Annual Report: Academic Year 2024–2025

During the academic year 2024–2025, the Alan Turing Club of the Department of Computer Science and Engineering actively organized a series of research-oriented events. The club functioned as a dynamic platform for fostering scientific inquiry, enhancing industry exposure, and encouraging student-led research initiatives in alignment with national education and innovation policies.

1. Organizing Committee:

S.No.	Name	Role
1	Dr.KCK.Vijayakumar, Principal/VCEW	Convener
2	Dr.C.Poongodi, HoD/CSE	Co-convener
3	Dr.R.Nithya, ASP/CSE	Co-ordinator
4	P.V Lakshmisaraswathi, IV CSE	Member
5	G.Naveenasri, IV CSE	Member
6	K.Kanagadharani, III CSE	Member
7	R.Ramajeevitha, III CSE	Member
8	S.Ramyabharathi, II CSE	Member



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Alan Turing Research Club

Department of Computer Science and Engineering

9	N.Lokshana, II CSE	Member
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2. Objectives of the Club

Promote Research Culture:

To cultivate a strong research mindset among students by exploring emerging technologies and foundational concepts in computer science and artificial intelligence.

Encourage Innovation and Creativity:

To provide a platform for students to ideate, experiment, and build innovative solutions inspired by Alan Turing's legacy of pioneering thought.

Interdisciplinary Learning:

To encourage collaboration across various disciplines including mathematics, cognitive science, cryptography, data science, and ethics in technology.

Hands-on Project Development:

To enable students to undertake mini-projects, case studies, and research papers under the guidance of faculty mentors and industry experts.

Knowledge Sharing and Peer Learning:

To conduct regular workshops, seminars, coding challenges, and discussion forums for knowledge exchange among students and researchers.

Participation in Conferences and Hackathons:

To prepare and support students in presenting papers and participating in national/international research conferences, coding competitions, and hackathons.

Ethics and Social Responsibility:

To foster awareness about the ethical implications of computing technologies and promote responsible innovation.



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Alan Turing Research Club

Department of Computer Science and Engineering

Commemorate Alan Turing's Contributions:

To recognize and celebrate the contributions of Alan Turing through events, quizzes, and special lectures that inspire students.

Build a Collaborative Network:

To create a strong network of students, faculty, and alumni to promote academic growth, mentorship, and future research collaborations.

Support Higher Studies and Career Growth:

To guide students aspiring for careers in research, academia, or advanced studies by providing access to resources, mentors, and opportunities.

2. Club-Level Outcomes (AY 2024–2025)

1. **Enhanced Research Aptitude:**

Students developed strong analytical and problem-solving skills through exposure to real-world research problems and methodologies.

2. **Increased Student Publications:**

Encouraged and guided students led to an increase in research paper submissions to journals, conferences, and symposiums.

3. **Practical Exposure to Emerging Technologies:**

Members gained hands-on experience with technologies such as AI, machine learning, cryptography, and data science through workshops and project-based learning.

4. **Industry Readiness:**

Students engaged in sessions with industry experts, improving their awareness of current trends and demands in the tech industry.

5. **Interdisciplinary Collaboration:**

The club fostered cross-domain learning, encouraging students to integrate knowledge from mathematics, logic, ethics, and computing.

6. **Improved Communication and Presentation Skills:**

Through research presentations, paper discussions, and technical talks, students developed effective academic communication abilities.

7. **Greater Participation in Competitions:**

Club members actively participated in hackathons, coding contests, and research competitions at regional and national levels.



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Alan Turing Research Club

Department of Computer Science and Engineering

8. **Academic and Career Progression:**
Students were better prepared for higher studies, research internships, and academic careers, with several securing opportunities in reputed institutions.
9. **Innovation and Problem Solving:**
The club encouraged original thinking, leading to the development of prototypes and innovative solutions addressing real-world problems.

3. Summary of Events Conducted (AY 2024–2025):

S.No	Title of the Event	Chief Guest / Resource Person	No. of Students Benefited
1	Workshop on Advanced Java	Mr.R.Anand, Junior Devops Engineer, Object Automation System Solutions Private Limited, Chennai	120

3.1 Detailed Event Report

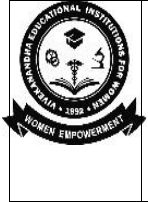
Workshop on Advanced Java

Date: 15.11.2024

Venue: CST Seminar Hall

Chief Guest: Mr.R.Anand,Junior Devops Engineer,Object Automation System

Solutions Private Limited, Chennai



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Department of Computer Science and Engineering

Objectives:

- To enhance participants' understanding of core and advanced Java programming concepts.
- To introduce JDBC for effective database connectivity and manipulation.
- To provide hands-on experience in building web applications using Servlets and JSP.
- To explain the concepts of multithreading and network programming in Java.
- To familiarize students with enterprise-level frameworks like Spring and Hibernate.
- To promote problem-solving skills through real-time coding exercises and mini-projects.
- To bridge the gap between academic learning and industry requirements in Java development.

Outcomes:

- Understand and implement JDBC for database connectivity.
- Develop dynamic web applications using Servlets and JSP.
- Apply multithreading and networking concepts in Java applications.
- Gain exposure to frameworks like Spring and Hibernate.
- Build end-to-end mini-projects showcasing advanced Java skills.

Conclusion:

The Workshop on Advanced Java successfully provided participants with a comprehensive understanding of advanced Java technologies, including JDBC, Servlets, JSP, multithreading, and frameworks like Spring and Hibernate. Through interactive sessions and hands-on exercises, attendees enhanced their coding skills, developed dynamic web applications, and gained valuable insights into industry practices. The workshop bridged the gap between theoretical knowledge and real-world application, empowering participants to pursue advanced software development confidently.



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Alan Turing Research Club

Department of Computer Science and Engineering

Photo: Workshop on Advanced Java





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Alan Turing Research Club

Department of Computer Science and Engineering

3.2 Student Participation Record

S. No	Name	Roll Number	Year / Dept	Event Title	Type of Event	Date	Level	Organized By	Prize
1.	R.Ramajeevitha K.Nivethasri R.Priyadharshni	612922101094 612922101075 612922101088	III/CSE	Quality circle forum of India Chennai Chapter 2k24	Paper presentation	20.07 .2024	National	Sathyabama Institutions of Science and Technology	II
2.	V.Reenasri	612922101095	III/CSE	IEEE CS Madras Mega ICT Quiz	Quiz	03.04. 2025	National	K.S.R College of Engineering	III
3.	R.Ramajeevitha K.Nivethasri	612922101094 612922101075	III/CSE	PAPERI X 2024, Paper presentation competition	Paper presentation	28.09 .2024	National	Mother Teresa College of Engineering and Technology	I

4. Faculty Participation/FDP/Conference Record



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Department of Computer Science and Engineering

S.No	Name	Department	Event Title	Type of Event	Date	Level	Organized By
1.	Mr.M.Boobalan	CSE	IEEE 2nd Global Conference on Information Technologies and Communications	Conference	25.10.2024 -26.10.2024	Inter National	Reva university, Bangalore
2.	Mrs.B.Ananthi	CSE	15 th Conference on Computing, Communication and Networking Technologies	Conference	24.06.2025 28.06.2025	Inter National	IIT–Mandi, Kamand, Himachal Pradesh
3.	Dr.R.Nithya	CSE	3rd Edition of IEEE NKSS's flagship international conference NKCon 2024	Conference	21.09.2024 22.09.2024	Inter National	Basaveshwar Engineering College, Karnataka
4.	Dr.K.P.Porkodi	CSE	5th International Conference on Smart Electronics and Communication	Conference	18.09.2024 - 20.09.2024	Inter National	Kongunadu College of Engineering and Technology,



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Alan Turing Research Club

Department of Computer Science and Engineering

							Trichy
5.	Mrs.T.Kavitha	CSE	3 rd International Conference on Futuristic Technologies	Conference	21.02.2025 - 22.02.2025	Inter National	Western Business School, Pune

4. Journal Publications (AY 2024–2025)

S.No	Author(s)	Title of Paper	Journal Name	Indexing Scopus/Wos/SCI /SCIE/Others	Date /Month	ISSN -NO
1.	Dr.R.Nithya	EWR-ICSA: Energy Aware Secured Routing Protocol Based Underwater Wireless Sensor Networks Using Improved Circle Search Algorithm	Wireless Personal Communications	SCI	September 2024	0929 - 6212



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5. Patent Publications (AY 2024–2025)

S.No	Title of Patent	Inventors	Application No.	Date Published	Date of Applied
1	IOT Based Computing Device for Finance Management	Mr.B.Manivannan	430995001	19.09.2024	June 2024
2.	Cybercrime detection and prevention using automated Machine learning in IOT Forensics	Mr.K.Mathivanan	202411094352 A	20.12.2024	August 2024

6. Project Proposal Submission Detail to various Funding Agency (AY 2024–2025)

S. No.	Title of the Project Proposal	Name of Principal Investigator	Co-Investigators	Funding Agency	Date of Submission	Amount Proposed (Rs.)	Status (Submitted /Under Review/Approved)
1.	AI and Data analytics driven decision making in the digital Era	Dr.N.Mohanpriya	Ms.A.Thamaraivelvi	AICTE Training and Learning Academy	24.06.2024	Rs.1,00,000	Submitted



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				(ATAL)			
2.	AI-Driven Defect Detection in Tire Surfaces Using Convolutional Neural Network	Dr.R.Nithya,	Ms.D.Radhika	Tamil Nadu State Council for Science and Technology (TNSCST)	23.11.2024	Rs.4,69,000	Submitted
4.	Harnessing AI-infused Cryptographic frameworks and immutable trust chains to safeguard systems against advanced malicious intrusions:A strategic approach for defence applications	Dr.C.Poongodi	Ms.S.Uma	Defense Research and Development Organization (DRDO)	25.02.2025	Rs.95,000	Submitted
5.	National Seminar on Transforming Cyber security Paradigms through Autonomous Intelligence and Cryptographic Resilience against	Dr.R.Nithya	Mrs.J.Kavipriya	Council of Scientific & Industrial Research (CSIR)	22.02.2025	Rs.90,000	Submitted



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	Quantum Threats						
6.	National Seminar on Harnessing AI-Driven Cyber Resilience: Harnessing Generative AI for Security Automation and Threat Response	Dr.C.Poongodi	Mrs.A.Saranyadevi	Anusandhan National Research Foundation (ANRF)	18.02.2025	Rs.90,000	Submitted
7.	Smart Cybernautic Approaches for Terrain Aware system Persistence	Dr.R.Nithya	Ms.A.Rajeswari	Council of Scientific & Industrial Research (CSIR)	25.02.2025	Rs.60,000	Submitted
8.	The Generative AI revolution in healthcare: Precision, Efficiency and Innovation	Dr.R.Rohini	Ms.B.Ananthi	Indian Council of Medical Research (ICMR)	04.04.2025	Rs.2,94,500	Approved
9.	Harnessing Advanced intelligence for the evolution of next generation network design and optimization	Mr.M.Boobalan	-	Science and Engineering Research Board (SERB)	21.03.2025	Rs.3,12,850	Submitted



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7. Book /Book Chapter Publication detail:

S.No	Author (s)	Title of the Book	Book Chapter Title	Publisher	ISBN.NO	Scopus/ Wos/ Others	Year of Publication & Month
1.	Mrs.P.Yogashree Mrs.B. Ananthi Mrs.K.S. Soniyalakshmi	Exploring Intelligent Healthcare with Quantum Computing	Harmony in Health machine learning empowered Phonocardiogram analysis for early cardiovascular disease detection	IET	9781839538094	Scopus	October 2024
2.	Ms.S.Indumathi Mrs.K. G.Chithira Mrs.S.Uma	Deep learning for the real world: practical applications and challenges		Notion Press	9798895880302	Others	October 2024



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3.	Dr.R.Nit hya	Mind and Machin e Explori ng Artificia l Intellige nce		Book Pen Publis hing	978939487 4619	Others	October 2024
4.	Mr.B.S. Prakash	Algorith mic Mastery With AI – Empow ering Solution s through Algorith mic Thinkin g		Global Aasan	978819764 8014	Others	October 2024
5.	Mr.B.S. Prakash	5G/6G Advanc ements in Commu nication	Developi ng and Deployin g a Recomm endation	IGI Global	979836936 7254	Others	January 2025



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Alan Turing Research Club

Department of Computer Science and Engineering

		Technologies for Agile Management	System for Predicting Trends in users				
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8. ANY New Innovations/Any Other



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Dr. Pushpa Mitra Bhargava Research Club

Department of Biotechnology

Annual Report: Academic Year 2024–2025

The Dr. Pushpa Mitra Bhargava Research Club of the Department of Biotechnology actively conducted multiple research-focused events during the academic year 2024–2025. The club served as a catalyst for promoting scientific inquiry, industrial exposure, and student-led research initiatives aligned with national education and innovation policies.

1. Organizing Committee:

S.No	Name	Designation / Role
1	Dr. M. Murugan, Head, R&D	Convener
2	Dr. S. Chozhavendhan, HoD/BT	Co-Convener
3	Dr. M. Sethu, AP/BT	Faculty Coordinator
4	Ms. Kavya, II M.Tech / BT	Student Member
5	Ms. R. Jai Priya, IV B.Tech / BT	Student Member
6	Ms. S. Subiksha, IV B.Tech / BT	Student Member
7	Ms. GT. Dikshya, III B.Tech / BT	Student Member
8	Ms. M. Mounica, III B.Tech / BT	Student Member
9	Ms. M. Gayathiri, II B.Tech / BT	Student Member
10	Ms. P. Gangothi, II B.Tech / BT	Student Member

2. Objectives of the Club

- 1. Promote Research Culture:** To cultivate a strong research mindset among undergraduate and postgraduate students through lectures, workshops, and hands-on sessions.



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Dr. Pushpa Mittra Bhargava Research Club

Department of Biotechnology

- 2. Bridge Academia and Industry:** To expose students to real-time industrial challenges and research commercialization pathways by inviting industry professionals and research experts.
- 3. Encourage Innovation and Entrepreneurship:** To motivate students to transform lab-based innovations into viable products and solutions for societal benefit.
- 4. Strengthen Interdisciplinary Knowledge:** To integrate cross-domain knowledge such as chemical engineering, pharmaceutical regulations, and sustainable technologies into biotechnology.
- 5. Enhance Career and Research Readiness:** To support students in setting clear academic and professional goals aligned with research and higher education opportunities.

3. Club-Level Outcomes (AY 2024–2025)

1. Increased Research Awareness

Students developed a deeper understanding of emerging biotech fields such as biodiesel, clinical research, and pharma regulations.

2. Improved Industry Interaction

Multiple expert talks connected students with real-world research and industry professionals.

3. Student-led Research Initiatives

The club inspired student interest in biosorption, fermentation, and translational biotechnology.

4. Career Planning and Professional Growth

Activities equipped students with tools for goal setting, academic progression, and skill development.



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Dr. Pushpa Mittra Bhargava Research Club

Department of Biotechnology

4. Summary of Events Conducted (AY 2024–2025):

S.No	Title of the Event	Chief Guest / Resource Person	No. of Students Benefited
1	Career Paths and Opportunities in Clinical Research	Ms. P. Uma Maheshwari, AstraZeneca, Bangalore	120

3.1 Detailed Event Report

1. Career Paths and Opportunities in Clinical Research

- **Date:** 26.10.2024
- **Venue:** CST Seminar Hall
- **Chief Guest:** Ms. P. Uma Maheshwari, Assistant Manager, AstraZeneca, Bangalore

Objectives:

- To introduce students to the field of clinical research.
- To discuss the application of biotech knowledge in the pharmaceutical industry.
- To promote awareness of regulatory frameworks and career pathways.

Outcomes:

- Students understood clinical trial structures and documentation practices.
- Encouraged exploration of higher education and certification programs.
- Boosted confidence in applying core biotech skills to healthcare innovation.



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Dr. Pushpa Mittra Bhargava Research Club

Department of Biotechnology

Conclusion:

The session broadened students' perspectives on how biotechnology supports medical advancement through clinical and regulatory research.

Photo: *Ms. Uma Maheshwari engaging with students during the session on clinical research careers.*

5. Student Participation Record

S.No	Name	Year / Dept	Type of Event	Date	Level	Organized By	Prize
1.	Ramani S	II-BT	Conference	6.11.2024 & 7.11.2024	National	Adhiyaman Engineering college	First Place
2.	Sandhiya S	II-BT	Conference	6.11.2024 & 7.11.2024	National	Adhiyaman Engineering college	First Place
3.	Rasika B S	II-BT	Conference	6.11.2024 & 7.11.2024	National	Adhiyaman Engineering college	First Place
4.	Ayesha Sithika.S	IV-BT	Internship	10.6.24-03.7.2024	National	Indian Institute Of Science, Bangalore	-
5.	Devika R	IV-BT	Internship	03.7.2024	National	Indian Institute Of Science, Bangalore	-
6.	Jegajothi.P	IV-BT	Internship	10.6.24-03.7.2024	National	Indian Institute Of Science, Bangalore	-
7.	Jayasri S	III-BT	Internship	10-11-2024-30-01-2025	National	Mindsparc Innovations Pvt Ltd, Hyderabad	-



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Dr. Pushpa Mittra Bhargava Research Club

Department of Biotechnology

8.	Ruthira P	IV-BT	Seminar	5.11.2024 & 6.11.2024	National	KSR College of Technology	-
9.	Ayesha Sithika S	IV-BT	Seminar	5.11.2024 & 6.11.2024	National	KSR College of Technology	-
10.	Ubasana R	IV-BT	Seminar	5.11.2024 & 6.11.2024	National	KSR College of Technology	-
11.	Vaishnavi.P	IV-BT	Seminar	5.11.2024 & 6.11.2024	National	KSR College of Technology	-
12.	Kiruthika C V	IV-BT	Seminar	5.11.2024 & 6.11.2024	National	KSR College of Technology	-
13.	Jeevitha G T	II-BT	Webinar	28.07.2024 & 04.08.2024 & 18.08.2024 & 25.08.2024	National	Society of pharmaceutical Sciences and Research(SPSR)	-
14.	Jeevitha G T	II-BT	Training	13.09.2024	National	BHUMI Club	-
15.	Swathi S	IV-BT	Idea Pitching	13.09.2024	Institution level	VCEW	-
16.	Sharmila R	IV-BT	Idea Pitching	13.09.2024	Institution level	VCEW	-



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17.	Dhinishiya M	IV-BT	Idea Pitching	13.09.2024	Institution level	VCEW	-
18.	Jegajothi P	IV-BT	Idea Pitching	13.09.2024	Institution level	VCEW	-
19.	Swathi S	IV-BT	Workshop	19.10.2024	State level	Excel Engineering College	-
20.	Ubasana R	IV-BT	Workshop	19.10.2024	State level	Excel Engineering College	-
21.	Vaishnavi.P	IV-BT	Workshop	19.10.2024	State level	Excel Engineering College	-
22.	Dhanushya. V	IV-BT	Workshop	19.10.2024	State level	Excel Engineering College	-
23.	Sharmila R	IV-BT	Workshop	19.10.2024	State level	Excel Engineering College	-
24.	Swathy. S	III-BT	Workshop	19.10.2024	State level	Excel Engineering College	-
25.	Gayathri sree. N	III-BT	Workshop	19.10.2024	State level	Excel Engineering College	-
26.	Logapriya. B	III-BT	Workshop	19.10.2024	State level	Excel Engineering College	-
27.	Anushri. A	III-BT	Workshop	19.10.2024	State level	Excel Engineering College	-



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28.	Kaviya. V	III-BT	Workshop	19.10.2024	State level	Excel Engineering College	-
29.	Poosha. P S	III-BT	Workshop	19.10.2024	State level	Excel Engineering College	-
30.	Ranjani. R	III-BT	Workshop	19.10.2024	State level	Excel Engineering College	-
31.	Raksheetha. S	III-BT	Workshop	19.10.2024	State level	Excel Engineering College	-
32.	Indhuja. S	III-BT	Workshop	8.11.2024	National	Paavai engineering college	-
33.	Gobika. P	III-BT	Workshop	8.11.2024	National	Paavai engineering college	-
34.	Gunavathi. A	III-BT	Workshop	8.11.2024	National	Paavai engineering college	-
35.	Lekha. K	III-BT	conference	20.07.2024	National	Sathyabama institutions of science and technology, Chennai	Platinum Award
36.	Vinothini. P	III-BT	conference	20.07.2024	National	Sathyabama institutions of science and technology, Chennai	Platinum Award



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37.	Joshika. S	III-BT	conference	20.07.2024	National	Sathyabama institutions of science and technology, Chennai	Platinum Award
38.	Devi. M	III-BT	conference	20.07.2024	National	Sathyabama institutions of science and technology, Chennai	Platinum Award
39.	Priyaa. P	III-BT	conference	20.07.2024	National	Sathyabama institutions of science and technology, Chennai	Platinum Award
40.	Hemavathi. S	III-BT	conference	20.07.2024	National	Sathyabama institutions of science and technology, Chennai	Platinum Award
41.	Pooja Sree. S	III-BT	conference	20.07.2024	National	Sathyabama institutions of science and technology, Chennai	Platinum Award
42.	Jayasri. S	III-BT	conference	20.07.2024	National	Sathyabama institutions of science and technology, Chennai	Platinum Award



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43.	Subiksha. D	III-BT	conference	20.07.2024	National	Sathyabama institutions of science and technology, Chennai	Platinum Award
44.	Gobika. M	III-BT	conference	20.07.2024	National	Sathyabama institutions of science and technology, Chennai	Platinum Award
45.	Agalya. B	III-BT	conference	20.07.2024	National	Sathyabama institutions of science and technology, Chennai	Platinum Award
46.	Gobika sree. E	III-BT	conference	20.07.2024	National	Sathyabama institutions of science and technology, Chennai	Platinum Award
47.	Sangavi. K	III-BT	conference	20.07.2024	National	Sathyabama institutions of science and technology, Chennai	Platinum Award
48.	Hajara. S	III-BT	conference	20.07.2024	National	Sathyabama institutions of science and technology, Chennai	Platinum Award



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49.	Harshana sree. S	III-BT	conference	20.07.2024	National	Sathyabama institutions of science and technology, Chennai	Platinum Award
50.	Gayathri sree. N	III-BT	conference	20.07.2024	National	Sathyabama institutions of science and technology, Chennai	Gold Award
51.	Logapriya. B	III-BT	conference	20.07.2024	National	Sathyabama institutions of science and technology, Chennai	Gold Award
52.	Swathy. S	III-BT	conference	20.07.2024	National	Sathyabama institutions of science and technology, Chennai	Gold Award
53.	Kamali. T	III-BT	conference	20.07.2024	National	Sathyabama institutions of science and technology, Chennai	Gold Award
54.	Vaishnavi.V. V	III-BT	Symposium	22.08.2024 & 23.08.2024	National	Hindusthan Institute of Technology	-
55.	Sreejaisavith	III-	Symposium	22.08.2024 &	National	Hindusthan Institute of	-



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	eeyaa. P	BT	um	23.08.2024		Technology	
56.	Durgadevi. D	III-BT	Symposium	22.08.2024 & 23.08.2024	National	Hindusthan Institute of Technology	-
57.	Agalya. B	III-BT	Symposium	22.08.2024 & 23.08.2024	National	Hindusthan Institute of Technology	-
58.	Yositha sree. V.G	III-BT	Symposium	22.08.2024 & 23.08.2024	National	Hindusthan Institute of Technology	-
59.	Pooja Sree. S	III-BT	Symposium	22.08.2024 & 23.08.2024	National	Hindusthan Institute of Technology	-
60.	Vaishnavi. V	III-BT	Technical Hackathon	26.09.2024 & 27.09.2024	National	Bannari institute of technology	-
61.	Charulatha. K	III-BT	Technical Hackathon	26.09.2024 & 27.09.2024	National	Bannari institute of technology	-
62.	Mounica. M	III-BT	Technical Hackathon	26.09.2024 & 27.09.2024	National	Bannari institute of technology	-



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			on				
63.	Gobika M	III BT	IDEA PITCHIN G	13.09.202 4	National	VCEW	-
64.	Elakiya M	III BT	IDEA PITCHIN G	13.09.202 4	National	VCEW	-
65.	Hemavathi S	III BT	IDEA PITCHIN G	13.09.202 4	National	VCEW	-
66.	Gobika. M	III- BT	Symposi um	18.10.202 4	National	Salem college of engineering and technology	-
67.	Hemavathi. S	III- BT	Symposi um	18.10.202 4	National	Salem college of engineering and technology	-
68.	Subarna priya. G	III- BT	Conferen ce	6.11.2024 & 7.11.2024	National	Adhiyaman Engineering college	-
69.	Vinitha. S	III- BT	Conferen ce	6.11.2024 & 7.11.2024	National	Adhiyaman Engineering college	-
70.	Lathapriya. R	III- BT	Conferen ce	6.11.2024 & 7.11.2024	National	Adhiyaman Engineering college	-
71.	Sruthika. K	III- BT	Conferen ce	6.11.2024 & 7.11.2024	National	Adhiyaman Engineering college	-



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72.	Mahalakshmi. T.S	III-BT	Symposium	8.11.2024	National	Paavai Engineering college	-
73.	Divya vaishnavi. T	III-BT	Symposium	8.11.2024	National	Paavai Engineering college	-
74.	Sudharshana. S	III-BT	Symposium	8.11.2024	National	Paavai Engineering college	-
75.	Lekha. K	III-BT	Symposium	8.11.2024 & 9.11.2024	National	Paavai Engineering college	-
76.	Kamali. T	III-BT	Symposium	8.11.2024 & 9.11.2024	National	Paavai Engineering college	-
77.	Devi. M	III-BT	Symposium	8.11.2024 & 9.11.2024	National	Paavai Engineering college	-
78.	Vinodhini. P	III-BT	Symposium	8.11.2024 & 9.11.2024	National	Paavai Engineering college	-
79.	Joshika. S	III-BT	Symposium	8.11.2024 & 9.11.2024	National	Paavai Engineering college	-
80.	Priyaa. P	III-BT	Symposium	8.11.2024 & 9.11.2024	National	Paavai Engineering college	-
81.	Pavithra. S	III-	Symposium	8.11.2024 &	National	Paavai Engineering	-



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		BT	um	9.11.2024		college	
82.	Farjana. A	III-BT	Symposium	8.11.2024 & 9.11.2024	National	Paavai Engineering college	-
83.	Hemavathi. S(2005)	III-BT	Symposium	8.11.2024 & 9.11.2024	National	Paavai Engineering college	-
84.	Gobika. M	III-BT	Symposium	8.11.2024 & 9.11.2024	National	Paavai Engineering college	-
85.	Vaishnavi. V	III-BT	Symposium	8.11.2024 & 9.11.2024	National	Paavai Engineering college	-
86.	Charulatha. K	III-BT	Symposium	8.11.2024	National	Paavai Engineering college	-
87.	Mounika. M	III-BT	Symposium	8.11.2024	National	Paavai Engineering college	-
88.	Jeevitha G T	II-BT	Quiz	21.09.2024	National	RBI Quiz 2024	-
89.	Ramani S	II-BT	Symposium	28.9.2024	National	KSR College of Technology	-
90.	Anuja A	II-BT	Symposium	28.9.2024	National	KSR College of Technology	-
91.	Manisha S	II-BT	Symposium	28.9.2024	National	KSR College of Technology	-



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92.	Pachiyamma I K	II- BT	Symposi um	28.9.2024	National	KSR College of Technology	-
93.	Miruthulaa K K	II- BT	Conferen ce	6.11.2024 & 7.11.2024	National	Adhiyaman Engineering college	-
94.	Gangothri Papanna	II- BT	Conferen ce	6.11.2024 & 7.11.2024	National	Adhiyaman Engineering college	-
95.	Priyadharshi ni R	II- BT	Conferen ce	6.11.2024 & 7.11.2024	National	Adhiyaman Engineering college	-
96.	Manisha S	II- BT	Symposi um	6.11.2024 & 7.11.2024	National	KPR Institute of Engineering and Technology, Cbe	-
97.	Rebeha A	II- BT	Symposi um	6.11.2024 & 7.11.2024	National	Paavai Engineering college	-
98.	Menagapriya V	II- BT	Symposi um	6.11.2024 & 7.11.2024	National	Paavai Engineering college	-
99.	Madhumitha V	II- BT	Symposi um	8.11.2024	National	Paavai Engineering college	-
100.	Muthu M	II- BT	Symposi um	8.11.2024 & 9.11.2024	National	Paavai Engineering college	-
101.	Anuja A	II-	Symposi	8.11.2024 &	National	Paavai Engineering	-



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		BT	um	9.11.2024		college	
102.	Aarthi P	II-BT	Symposium	8.11.2024 & 9.11.2024	National	Paavai Engineering college	-
103.	Nirosha P	II-BT	Symposium	8.11.2024 & 9.11.2024	National	Paavai Engineering college	-
104.	Nandana J S	II-BT	Symposium	8.11.2024 & 9.11.2024	National	Paavai Engineering college	-

6. Faculty Participation/FDP/Conference Record

S.No	Name	Department	Event Title	Type of Event	Date	Level	Organized By
1	Dr. A. Muthu Kumara Pandian	BT	Digital Transformation in Manufacturing- Industry 4.0 and 5.0	FDP	09.12.2024 To 21.12.2024	National level	Sri Manakula Vinayagar Engineering College, Pondicherry
2	Mr. M. Vijay Pradhas Singh	BT	AURA'24-Two Days Technical Hackathon	Workshop	26.9.2024 & 27.9.2024	National level	Bannari Amman Institute of Technology.



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7. Journal Publications (AY 2024–2025)

S. No	Author(s)	Title of Paper	Journal Name	Indexing Scopus/Wos/SCI/SCIE/Others	Date /Month	ISSN-NO
1	Dr.M.S. Manojkumar	Magnetically retrievable of Ag-ZrO ₂ /Fe ₃ O ₄ @TiO ₂ quaternary nanocomposites (QNCs) towards fabric dye degradation	Journal of the Indian Chemical Society	SCI	Jan 2025	ISSN 2667-2847
2	Dr.M.S. Manojkumar	ZnS Honey-Hump Nanocrystals: Efficient Green Catalysis for Remazol Black Dye Removal in Wastewater Treatment	Chemistry select	Scopus	Jan 2025	ISSN 2365-6549
3	Ms.Ramya M.	Effluent treatment by oedogoniums	World journal of pharmacy and pharmaceutical sciences	Others	Jan 2025	ISSN 2278 – 4357
4		The		Others	Dec	ISSN 2455-6548



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	Dr. Subramanian N Dr. Chozhavendhan. S	medicinal heritage of acahypha indica: an integrated review	International Journal of Biology Research		2024	
5	Dr. M. Rajamehala	Bioplastic Production using Aloe vera Gel as Plasticizer: A Sustainable approach	Current World Environment	UGC-CARE	September 2024	ISSN 0973-4929
6	Dr. Manojkumar M.S.	Copper Purging from Industrial effluent by Adsorption using Fe_3O_4/MnO_2 Nanocomposites	Indian Journal of Environmental Protection	Scopus	September 2024	ISSN 0253-7141t
7	Dr. K. Gilbert Ross Rex	Heterocyclic Compounds' Therapeutic Potential in Alzheimer's and Parkinson's Disease by Targeting at Mitochondrial Homeostasis and Signalling	African Journal of Biological sciences	Others	July 2024	ISSN 2663-2187/
8	Dr. M.S.M anojkuma	Banana peel extract for	Environmental	SCI	Jul	ISSN 0013-9351



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	r	CeO ₂ nanoflower synthesis: Enhancing Photocatalytic activity for methyl orange dye removal and bactericidal effects	Research		2024	
9	Dr. K. Gilbert Ross Rex	Biotransformation of Textile Industry Sludge Through Vermicomposting with the Earthworm <i>Eudrilus eugeniae</i> : Investigation of GCMS and Genotoxic Assessment	Soil and sediment contamination: an international journal	SCI	May 2024	https://doi.org/10.1080/15320383.2025.2497859
10	Dr. K. Gilbert Ross Rex	Valorization of algae and seaweed bio-products for sustainable agriculture, cosmetics, energy, and wastewater treatment	International Journal of Research and Analytical Reviews	UGC-CARE	May 2024	E-ISSN 2348-1269, P- ISSN 2349-5138



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8. Patent Publications (AY 2024–2025)

S.No	Title of Patent	Inventors	Application No.	Date Published	Date of Applied
1	Title of patent – Cold Water Vending Machine Patent	Dr. S. Chozhavendan Ms.Anbarasi P	434515-001	23-12-024	
2	Title of patent – Herbal Medicine Formulating Apparatus Patent	Mrs. P. Anbarasi Mrs. M. Fathima Mrs. M Ramya	434515-001	23-12-024	
3	Title of patent – Composite structure fabrication machine Patent	Dr.M.Rajamehala	436054-001	29-10-2024	
4	Title of patent – Microalgae Photobioreactor for Air Purification	Dr. Subramanian	6399111	24-10-2024	
5	Title of patent – Apparatus for cancer detection	Dr.M.Rajamehala	434985-001	21-10-2024	
6	Title of patent – Wearable device for continues monitoring of Estrogen level through sweat	Dr. Gilbert Ross Rex	423347-001	16-07-2024	
7	Acidochromic and fluorescent	Dr. K. Gilbert Ross Rex	202541017660 A	21-3-25	



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	response of <i>calotropis procera</i> latex: a natural indicator for mineral acid detection				
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9. Project Proposal Submission Detail to various Funding Agency (AY 2024–2025)

S. No.	Title of the Project Proposal	Name of Principal Investigator	Co-Investigators	Funding Agency	Date of Submission	Amount Proposed (Rs.)	Status (Submitted/Under Review/Approved)
1	Fabrication of antimicrobial coated catheters for public health and well-being	Dr. K. Gilbert Ross Rex	Dr. S. Chozhavendhan	Department of Science and Technology Scheme for young scientist and technology programme	29-3-25	2152000	Submitted
2	Herbal extract mediated anti biofilm compounds for catheterization	Dr. K. Gilbert Ross Rex	Dr. S. Chozhavendhan	Ministry of Ayush	04-6-25	50000	Submitted
3	Prevention	Dr. K.	-	TATA	17-3-25	Post	Submitted



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	of Biofilm by Antimicrobial Coatings in Catheter	Gilbert Ross Rex				PhD research fellowship	
4	Antimicrobial catheters	Dr. K. Gilbert Ross Rex	-	TNSCST “Innovation and product development”	22-3-25	100000	Submitted

10. Book /Book Chapter Publication detail:

S.No	Author (s)	Title of the Book	Book Chapter Title	Publisher	ISBN.NO	Scopus/WoS/Others	Year of Publication & Month
	Dr.M.Rajamehala Mr. M.Vijay Pradhap Singh Dr.Chozhavanndhan. S Dr.A.Muthukumarpandian	Biofuels and Bioenergy	<i>Biorefinery and Circular Bioeconomy Approaches/ Artificial intelligence in circular economy—the next step for sustainable revolution</i>	Elsevier	978-0-443-29254-5	SCOPUS	2024



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	Dr.Chozhavan ndhan. S Mrs. Anbarasi.P	Emerging Trends in Multidisciplinary Science and Technology	--	SRR Publicizing research	978-81- 974501- 4-3	--	2024
	Dr.Rajamehala.M Dr.Chozhavan ndhan. S	Bioenergy: A Need for Environmental Sustainability		SRR Publicizing research	978-81- 964923-7- 3		2024

11. ANY New Innovations/Any Other

NIL



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Dr. Rajeshwari Chatterjee Journal Club

Department of Electronics and Communication Engineering

Annual Report: Academic Year 2024–2025

The Dr. Rajeshwari Chatterjee Journal Club of the Department of Electronics and Communication Engineering actively conducted multiple research-focused events during the academic year 2024–2025. The club served as a catalyst for promoting scientific inquiry, industrial exposure, and student-led research initiatives aligned with national education and innovation policies.

1. Organizing Committee:

S.No	Name	Role
1	Dr.M.Murugan, Head, R & D	Convener
2	Dr.P.T.Kalaivaani, Head/ECE	Co-Convener
3	Dr.K.Satheshkumar, ASP/ECE	Faculty Coordinator
4	Mrs.V.Abirami,II/VLSI	Student Member
5	Ms.M.Deepika,IV/ECE	Student Member
6	Ms.B.Lakshmipriya,IV/ECE	Student Member
7	Ms.G.Bharani,III/ECE	Student Member
8	Ms.A.Keerthana,III/ECE	Student Member
9	Ms.K.Divya,II/ECE	Student Member
10	Ms.M.RoselinDeborah,II/ECE	Student Member

2. Objectives of the Club

1. Promote Research Culture:

Foster a spirit of inquiry, innovation, and scientific thinking among students and faculty.
Encourage interdisciplinary collaboration in research activities.

2.Support Research Skills Development:

Organize workshops, seminars, and training programs on research methodology, data analysis, scientific writing, and publication ethics.

Provide guidance for writing research papers, theses, and funding proposals.



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Dr. Rajeshwari Chatterjee Journal Club

Department of Electronics and Communication Engineering

3. Facilitate Research Opportunities:

Connect students and faculty with internal and external research funding sources.

Encourage participation in conferences, symposiums, hackathons, and research competitions.

4. Encourage Publication and Dissemination:

Motivate members to publish their research in reputed journals and present at conferences.

Assist in journal selection, peer review processes, and open-access publishing.

5. Mentorship and Peer Learning:

Create a platform for experienced researchers to mentor junior researchers.

Promote collaborative projects between faculty and students.

3. Club-Level Outcomes (AY 2024–2025)

1. Research Awareness and Literacy

Members will demonstrate an understanding of the research process, including literature review, problem identification, methodology, data collection, analysis, and reporting.

2. Enhanced Critical Thinking and Problem-Solving

Members will develop critical thinking skills necessary for identifying gaps in knowledge, formulating research questions, and solving real-world problems through evidence-based approaches.

3. Improved Scientific Communication

Members will be able to effectively communicate research findings through written reports, presentations, posters, and publications in journals or conferences.



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4.Participation in Funding and Grant Opportunities

Members will learn to prepare research proposals for funding agencies and participate in seed funding or institutional grants.

5.Publication and Dissemination of Research

Students will be guided to publish their research in reputed journals, conference proceedings, and participate in symposia, exhibitions, and hackathons.

4. Summary of Events Conducted (AY 2024–2025):

S.No	Title of the Event	Chief Guest / Resource Person	No. of Students Benefited
1	Exploring IOT: Core Concepts and Industry Applications	Er.S. Vinothkumar Managing Director, Veerana projects 24/7	124
2	Significance of Semiconductor in day to day Applications	Mr. Dharun Manoharan Ph.D Scholar, Photonics and microelectronics Laboratory, University of South Carolina, Columbia,USA	125



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3.1 Detailed Event Report

1. Exploring IOT: Core Concepts and Industry Applications Date: 14.02.2025 & 15.02.2025

- **Venue:** CST Seminar Hall
- **Chief Guest:** Er.S. Vinothkumar Managing Director, Veerana projects 24/7
- **Objectives:** To learn about IOT Core Concepts and Sensors

Outcomes:

1. Students are able to explain the key components such as sensors, actuators, communication protocols, and cloud integration in an IoT ecosystem.
2. Students are designed and implement simple IoT solutions using platforms like Arduino, Raspberry Pi, and cloud services.
3. Students are examining case studies to understand how IoT adds value and transforms different sectors.

Conclusion:

The Internet of Things (IoT) is revolutionizing the way we interact with technology by seamlessly connecting devices, systems, and people. Through its core components—sensors, connectivity, data processing, and intelligent decision-making—IoT enables real-time monitoring, automation, and efficiency across various domains. From smart homes and industrial automation to healthcare, agriculture, and smart cities, the applications of IoT are vast and transformative.



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Photos:





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2. Significance of Semiconductor in day-to-day Applications

Date: 01.02.2025

- Venue: VCEW Main Seminar Hall
- Chief Guest: Mr. Dharun Manoharan, PhD Scholar, Photonics and microelectronics Laboratory University of South Carolina, Columbia, USA.
- Objectives: To learn about Semiconductor Concepts

Outcomes:

1. Identify the characteristics that distinguish semiconductors from conductors and insulators.
2. List everyday devices such as smartphones, televisions, computers, and LED lights that rely on semiconductor technology.
3. Analyze how semiconductors enable smart technologies, IoT devices, automation, and artificial intelligence.

Conclusion:

The semiconductors play a pivotal role in shaping modern life by enabling the functionality of countless electronic devices that we rely on daily. From smartphones, computers, and home appliances to automobiles, medical equipment, and communication systems, semiconductors are at the heart of technological advancement. Their ability to control electrical signals with precision has revolutionized data processing, energy efficiency, and automation across industries. As we move towards an increasingly digital and connected world, the importance of semiconductors will only continue to grow, driving innovation, enhancing convenience, and improving quality of life in every sphere of human activity.



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Prof. Dr. M. Karunanithi, CHAIRMAN & SECRETARY

Department of Electronics and Communication Engineering

International Webinar on Significance of Semiconductors in Day to Day Applications - 01.02.2025

NAAC A++

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/vcw2001

Professional Experience

ESD (Internal Electro-Static Discharge) Internship - Renesas Electronics (Formerly known as Daqing Semiconductor), Swanton, United Kingdom
 → Process Technology and Reliability Group, supporting power management solutions to Apple's products like iPhone, Apple watch, iPad, iPod, Vivo mobile charger

Visiting Researcher (Graduate Assistant) - Rutgers University, New Jersey, USA
 → Worked on Vanadium oxide thin film that mimics the memory state of the brain. Served as a computing from plasticity behavior with top notch material scientist.



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5. Student Participation Record

S.No	Student Name	Dept	Prize/participated	Class of the student	Name of the Event	Organized by	Level
1.	T. Abinaya G.Brundha V.K.Brindha Monisha Sasirekha	ECE	Prize	IV	Quality Circles Forum of India Chennai Chapter- Platinum Award	Quality Circles Forum of India Chennai Chapter	State
2.	V.Abinaya U. Mouleshwari M. Aishwarya B.Chaithra	ECE	Prize	III	EDI Hackathon	Tamilnadu State Government	State
3.	R. Abirami K. Gayathri R.Arulmozhi	ECE	Prize	IV	EDI Hackathon	Tamilnadu State Government	State
4.	Jeyshee Abirami R	ECE	First Prize	IV	Paper Presentation	Paavai Engineering College	Institute
5.	Jeyshee Abirami R	ECE	Second Prize	IV	Paper Presentation	Paavai Engineering College	Institute



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6.	Shobika N	ECE	First Prize	III	Idea Contest	Vellalar College of Engineering and Technology	Institute
7.	Subhasree M Nivetha K Pavithra M Santhiya.B	ECE	First Prize	III	Paper Presentation	Sri Ramakrishna Institute of Technology	Institute
8.	Vaishanavi R Nisha R	ECE	First Prize	II	Paper Presentation	Bannari Amman Institute of Technology	Institute
9.	Anushya D Kiran Sowmini P Dharshini C Geetha S Devadharshini S	ECE	First Prize	III	Paper Presentation	K.S.R College of Engineering	Institute
10.	R.Abirami	ECE	First Prize	III	Project Presentation	PALS,IIT Madras	State
11.	Monisha	ECE	First Prize	III	Project Presentation	PALS,IIT Madras	State



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12.	G.Brundha V.K.Brindha S.Deepa G.Geevithra	ECE	Second Prize	III	Prototype Display	AICTE Idea Lab, VCEW	Institute
13.	G. Kavya Shree M.Ashvitha	ECE	First Prize	III	My Idea Contest	AICTE Idea Lab, VCEW	Institute
14.	G.Geevithra	ECE	Second Prize	III	Paper Presentation	M.P.Nachimuthu M.Jaganathan Engineering	Institute
15.	T.Saranya R.Suvega G.C.Priya	ECE	Prize	IV	Bhumi – Most Unique Social Initiative Award	Tamilnadu State Government	State
16.	N.Janashri C.R.Mamatha E.Deva Dharshini	ECE	Prize	IV	Bhumi – Most Unique Social Initiative Award	Tamilnadu State Government	State



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6.Faculty Participation/FDP/Conference Record

S.No	Name	Dept	Event Title	Type of Event	Date	Level	Organized By
1.	M.Ramesh	ECE	FOSSEE and Spoken Tutorial projects, IIT Bombay	On line Workshop	28.11.24	National	IIT Bombay
2.	G.Rajeshwari	ECE	Think ,Create,Engineer	FDP-Off Line	28.11.24 to 30.11.24	National	PALS
3.	R.Umamaheshwari	ECE	Spoken Tutorial projects, IIT Bombay	On line Workshop	28.11.24	National	IIT Bombay
4.	Dr.K.Satheshkumar	ECE	Recent Advancements and Challenges in Integration of IoT and 5G/6G Wireless Communication: Building the Next Gen Connectivity	ATAL FDP-On line	03.02.25 to 08.02.25	National	Kongunadu College of Engineering and Technology
5.	R.Umamaheshwari	ECE	The Role of Artificial Intelligence and Machine Learning in Electric Vehicle Technology	ATAL FDP-On line	10.02.25 to 15.02.25	National	K.Ramakrishnan College of Technology
6.	N.Sathya	ECE	Recent Advancements and Challenges in Integration of IoT and 5G/6G	ATAL FDP-On line	03.02.25 to 08.02.25	National	Kongunadu College of Engineering and Technology



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			Wireless Communication: Building the Next Gen Connectivity				
7.	R.S.Mathubala	ECE	Recent Advancements and Challenges in Integration of IoT and 5G/6G Wireless Communication: Building the Next Gen Connectivity	ATAL FDP-On line	03.02.25 to 08.02.25	National	Kongunadu College of Engineering and Technology
8.	M.Priyadarshini	ECE	Recent Advancements and Challenges in Integration of IoT and 5G/6G Wireless Communication: Building the Next Gen Connectivity	ATAL FDP-On line	03.02.25 to 08.02.25	National	Kongunadu College of Engineering and Technology
9.	R.S. Mathubala	ECE	Microstrip Patch Antenna Design Techniques and Tools	On line FDP	16.09.25 to 20.09.25	National	NITTTR, Chandigarh
10.	M.Ramesh	ECE	Harnessing Digital Healthcare Technologies: Biomarkers, IoT, Data Analytics and AI in Precision Medicine	ATAL FDP-Off line	05.08.24 to 17.08.24	National	Knowledge Institute of Technology



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11.	K. Rajasekar	Mech	Progress in Mechanical Engineering	On line FDP	14.10.24 to 19.10.24	International	SRM Institute of Science and Technology
12.	T. Vinotha	ECE	VLSI Design for IoT and Edge Computing	ATAL FDP-On line	20.01.25 to 25.01.25	National	Paavai Engineering College
13.	K.Rajasekar	Mech	The Future of Quantum Computing and High performance Computing	ATAL FDP-On line	23.12.24 to 28.12.24	National	P.S.V College of Engineering and Technology
14.	T.Vinotha	ECE	UiPath Robotics Process Automation	FDP-Off line	27.01.25 to 31.01.25	National	ICT-VCEW
15.	R. Indhumathi	ECE	Intelligent Computing Techniques and its Engineering Applications	FDP	06.01.25 to 10.01.25	National	College of Engineering & Management ,Kolaghat
16.	R.Indhumathi	ECE	VLSI Design for IoT and Edge Computing	ATAL FDP-On line	20.01.25 to 25.01.25	National	Paavai Engineering College
17.	Dr.P.T.Kalaivaani	ECE	Women in Space Leadership Programme (WiSLP)	Workshop	18.02.25 to 21.02.25	International	Uk-India Education and (DST)
18.	Dr.S.Kokila	ECE	Microsoft Azure AI Engineer Associate	FDP-Off line	22.07.24 to 26.07.24	National	ICT-VCEW
19.	T.Vinotha	ECE	Intelligent Computing Techniques and its Engineering Applications	FDP	06.01.25 to 10.01.25	National	College of Engineering & Management ,Kolaghat
20.	R.S. Mathubala	ECE	CII	FDP	19.10.24	National	CII IWN Salem



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21.	Dr.R.Kavitha	ECE	Efficient video Anomaly Detection using one class support Vector machine	IEEE International Conference on distributed computing and Electrical circuits and Electronics	25.04.25	International	IEEE SB Ballari Institute of Technology and Management
22.	Dr.V.M.Senthilkumar	ECE	Gradient Boosting Machine based Fault Diagnosis in Power Electronic circuits	IEEE International Conference on distributed computing and Electrical circuits and Electronics	25.04.25	International	IEEE SB Ballari Institute of Technology and Management
23.	Dr. T. Manikandan	ECE	Cardiac Vascular Disease prediction using stacked Ensemble Algorithm for Type-2 Diabetes Mellitus	International Conference on Sentiment analysis and Deep Learning	18.02.25 to 20.02.25	International	Far western University in Bhmidataa, Nepal



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24.	S.Sharmila	ECE	Cardiac Vascular Disease prediction using stacked Ensemble Algorithm for Type-2 Diabetes Mellitus	International Conference on Sentiment analysis and Deep Learning	18.02.25 to 20.02.25	International	Far western University in Bhmidataa, Nepal
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7. Journal Publications (AY 2024–2025)

S. No	Author(s)	Title of Paper	Journal Name	Indexing Scopus/Wos/SCI/SCIE/Others	Date /Month	ISSN-NO
1	G.Rajeshwari G.Rasiga M.Kavitha S. Sujitha	Efficient Management of Solid Waste in Urban Draining System	IJARST	Others	May 2025	2581-9429
2.	Dr.R.Nirmala L.Megala	A low power and area reduction multiplier implementation using vedic mathematics in 16nm FINFET technology	ICTACT Journal on Micro Electronics	Others	October 2024	2395-1680



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3.	Dr.R.Nirmala	VLSI implementation of an energy - efficient color image compressor using improved block truncation coding and enhanced Golomb -rice coding for wireless sensor networks	Journal of supercomputing	SCI	August 2024	1573-0484
4.	Dr. R. Nirmala	Enhanced Low Power Fin FET-Based Flash ADC Design for High-Speed Electronics Applications	Technical Gazette	SCI	February 2025	1330-3651
5.	Dr.K.Vinothkumar	Cognitive Radio with Deep Network for Proficient Spectrum Sharing in Massive MIMO Systems	Brazilian Archives of Biology and Technology	SCI	August 2024	1678-4324



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6.	Dr. K. Vinothkumar	Enhancing Spectrum Sharing Efficiency in Large-Scale MIMO Systems over Integration of Cognitive Radio and Reinforcement Learning	Technical Gazette	SCI	August 2024	1330-3651
7.	Dr.P.T. Kalaivaani	Optimized Antenna System for Enhanced Signal Reception in Communication Networks within Regulatory Limits	ICTACT Journal on Microelectronics	UGC	April 2025	-
8.	Dr.P.T.Kalaivaani	Compact Device for Milk Quality Checking	International Journal of Innovative Research in Technology	UGC	April 2025	-
9.	Dr.K.Vinothkumar	QoS based Adaptive Multi-Constrained Energy Efficient Routing for Vehicular Ad hoc Network	Technical Gazette	SCI	September 2024	1330-3651



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10.	Dr.K.Vinothkumar	Modeling of Intrusion Detection System Using Double Adaptive Weighting Arithmetic Optimization Algorithm with Deep Learning on Internet of Things Environment	Brazilian Archives of Biology and Technology	SCI	August 2024	1678-4324
11.	Dr.K.Vinothkumar	Improved Grey Wolf Optimization Based Node Localization Approach in Underwater Wireless Sensor Networks	Measurement Science Review	SCI	July 2024	1335-8871

8. Patent Publications (AY 2024–2025)

S.No	Title of Patent	Inventors	Application No.	Date Published	Date of Applied
1.	Solar based Peacock Repellent system	1.Dr.KCK.Vijayakumar 2.Dr.P.T.Kalaivaani 3.Ms.R.S.mathubala 4.V.K.Brindha 5.G.Geevithra 6.T.Abinaya 7.G.Brundha 8.S.Deepa 9.S.Vinothkumar	202541044148A	30.05.2025	07.05.2025



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2.	Agriculture Drone for Spraying Fertilizer	1.Dr.P.T.Kalaivaani 2.T.Raja	438920-001	03.02.2025	29.11.2024
3.	Rover for Soil Testing and Fertilizer Dispensing	Dr.P.T.Kalaivaani	415196-001	12.7.2024	27.04.2024
4.	Patient Diagnosis Token Generator For Health Monitoring	Dr.S.Kokila	202441071138	04.10.2024	06.09.2024
5.	Wireless Smart Camera System	Dr.R. Nirmala	422803-001	16.08.2024	10.07.2024
6.	Machine for arc heating based metal additive manufacturing	K. Rajasekar	442390-001	27.12.2024	11.11.2024
7.	Smart Pill Dispenser Device for patient medication adherence management	Dr.R.Kavitha	202441091401	6.12.2024	10.11.2024



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9. Project Proposal Submission Detail to various Funding Agency (AY 2024–2025)

S. No.	Title of the Project Proposal	Name of Principal Investigator	Co-Investigators	Funding Agency	Date of Submission	Amount Proposed (Rs.)	Status (Submitted/ Under Review/ Approved)
1	Industrial IOT and Industry 4.0	Dr.K.Satheshkumar	Dr.R.Kavitha	ATAL FDP	14.09.24	1,00,000	Submitted
2	Development of Smart Tomato Preservation System for Farmers using AI	Dr.R.Nirmala	Dr.R.Kavitha	TNSCST	21.11.24	4,61,000	Submitted
3	DST-GDC Incubate	Dr.P.T.Kalaivani	Ms.R.S.Mathubala	Agri Innovators	20.02.25	3,00,000	Submitted
4	Energy Utilization based supervised machine learning Algorithm for Residential Energy meter monitoring through web of things	Dr.K.Satheshkumar	Ms.G.Rajeshwari	TNSCST	24.03.25	1,00,000	Submitted



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5	Intelligent System for Accident Prevention in Hill Station using IOT and AI	Dr.R. Kavitha	Ms.R.Indhu mathi	TNSCS T	24.03.25	1,00,000	Submitted
6	FIST - Project(Le vel- A)	Dr.P.T.Kalaivaa ni	Dr.R.Nirmal a	FIST PG Level	15.05.25	14845544	Submitted

10.Book /Book Chapter Publication detail:

S. No	Author (s)	Title of the Book	Book Chapter Title	Publisher	ISBN.NO	Scopus/Wos/ Others	Year of Publication & Month
1	Dr.S.Kokila	IOT for Beginners:A Step by Step Guide	-	Notion press	9798897770304	Others	March 2025
2.	Dr.T.Manikandan	Networked Sensing Systems	Advanced Techniques for Human Centric Sensing in Environmental Monitoring	Wiley	https://doi.org/10.1002/9781394310890.ch4	Others	February 2025



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11.ANY New Innovations/Any Other-NIL

R&D COORDINATOR

HOD

HEAD R&D



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DR. RANI E. K. DORNAN RESEARCH CLUB DEPARTMENT OF BIOMEDICAL ENGINEERING

ANNUAL REPORT: ACADEMIC YEAR 2024–2025

The Dr. Rani E. K. Dornan Research Club of the Department of Biomedical Engineering actively conducted multiple research-focused events during the academic year 2024–2025. The club served as a catalyst for promoting scientific inquiry, industrial exposure, and student-led research initiatives aligned with national education and innovation policies.

1. Organizing Committee:

S.No	Name	Designation / Role
1	Dr. M.Murugan, Head, R & D	Convener
2	Dr. R.Kumar, HoD/BME	Co-Convener
3	Dr. K.Baskar, ASP/BME	Faculty Coordinator
4	Ms. R.Kaviyanjali, IV/BME	Student Member
5	Ms. B.Thrisha, IV/BME	Student Member
6	Ms. T N Yazhini, IV/BME	Student Member
7	Ms. C.Archana, III/BME	Student Member
8	Ms. C. Shalini, III/BME	Student Member
9	Ms M L Mona Shree, III/BME	Student Member
10	Ms. T. Sharmila, II/BME	Student Member
11	Ms. R. Subathri, II/BME	Student Member

2. Objectives of the Club

- Promote Research Culture:** To cultivate a strong research mindset among undergraduate and postgraduate students through lectures, workshops, and hands-on sessions.
- Bridge Academia and Industry:** To expose students to real-time industrial challenges and research commercialization pathways by inviting industry professionals and research experts.



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DR. RANI E. K. DORNAN RESEARCH CLUB DEPARTMENT OF BIOMEDICAL ENGINEERING

- 3. Encourage Innovation and Entrepreneurship:** To motivate students to transform lab-based innovations into viable products and solutions for societal benefit.
- 4. Strengthen Interdisciplinary Knowledge:** To integrate cross-domain knowledge such as electronics, electrical and sustainable technologies into biomedical engineering.
- 5. Enhance Career and Research Readiness:** To support students in setting clear academic and professional goals aligned with research and higher education opportunities.

3. Club-Level Outcomes (AY 2024–2025)

1. Research & Innovation

Students develop biomedical research skills, work on innovative projects, and publish papers or present at conferences.

2. Skill Development

Enhances technical, analytical, leadership, and communication skills through hands-on activities and teamwork.

3. Networking & Collaboration

Facilitates collaborations with faculty, industry experts, hospitals, and professional societies; builds a strong professional network.

4. Career Advancement

Increases opportunities for internships, higher education, scholarships, and careers in biomedical research and healthcare industries.

4. Summary of Events Conducted (AY 2024–2025):

S.No	Title of the Event	Chief Guest / Resource Person	Date	No. of Students Benefited
1	Research and Career Opportunities for Biomedical Engineering	Dr.N.Sivakumaran Professor, Department of	01.03.2025	55



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	Students	Instrumentation and Control Engineering National Institute of Technology Tiruchirappalli		
2	First National Conference on Green and Sustainable Innovation in Electrical, Electronics and Biomedical Engineering (GSIEEB'25)	Dr.R. Vimalathithan Director, Krishtec, Coimbatore	09.04.2025	83

4.1 Detailed Event Report

1. Research and Career Opportunities for Biomedical Engineering Students

- Date: 01.03.2025
- Venue: CST Seminar Hall
- Chief Guest: **Dr.N.Sivakumaran, Professor, Department of Instrumentation and Control Engineering, National Institute of Technology, Tiruchirappalli**

Objectives:

- To introduce students to the field of Biomedical Instrumentation equipments.
- To discuss the application of biomedical knowledge in the healthcare industry.
- To promote awareness of innovation, regulatory frameworks and career pathways.



DR. RANI E. K. DORNAN RESEARCH CLUB
DEPARTMENT OF BIOMEDICAL ENGINEERING

Outcomes:

- Students understood various instrumentation equipments and documentation practices.
- Acquired the knowledge in biomedical applications related to healthcare field
- Acquired the skills related to healthcare innovation and regulatory affairs.

Conclusion:

The session broadened students' perspectives on how biomedical equipments useful in research and in healthcare industry



GLIMPSES OF Research and Career Opportunities for Biomedical Engineering Students by Dr.N.Sivakumaran, Professor, ICE DEPT, NIT TRICHY

2. First National Conference on Green and Sustainable Innovation in Electrical, Electronics and Biomedical Engineering (GSIEEB'25)

The Departments of Electrical and Electronics Engineering, Electronics and Communication Engineering and Biomedical Engineering of Vivekanandha College of Engineering for Women (Autonomous) jointly organized the **First National Conference on Green and Sustainable Innovations in Electrical, Electronics and Biomedical Engineering (GSIEEB'25)* in Association with



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DR. RANI E. K. DORNAN RESEARCH CLUB

DEPARTMENT OF BIOMEDICAL ENGINEERING

Biomedical Engineering Society of India (BMESI) and Institution of Electronics and Telecommunication Engineers (IETE) on April 9, 2025.

The conference was inaugurated in a formal session presided by the Principal of the college **Dr. K.C.K. Vijayakumar**, and graced by the presence **Dr. R. Vimalathithan, Director, Krishtec, Coimbatore**, who served as the Chief Guest. Heads of EEE, ECE and BME Departments, R&D Coordinators, and faculty & Non teaching staff members, students of VCEW and from other Institutions have also participated in the National Conference.

The inauguration commenced with a warm **Welcome address by Dr. R. Kumar, Head, Department of Biomedical Engineering**. Followed by the conference theme explanation by ****Dr. Thenmalar HoD incharge EEE** The keynote address, delivered by the Chief Guest, Dr. R. Vimalathithan. He highlighted the significance of innovation and sustainability in modern engineering practices. He encouraged students and researchers to participate actively in such academic gatherings to contribute to the development of the nation through innovative ideas and technologies.

The conference witnessed enthusiastic participation, with ****over 75 research papers presented by scholars from more than 25 Engineering Colleges across Tamil Nadu****. The sessions provided a platform for students, academicians, and professionals to discuss recent advancements and sustainable practices in the fields of electrical, electronics, and biomedical engineering.

The inauguration ceremony concluded with the **Vote of Thanks delivered by Dr. P.T. Kalaivaani, Head, Department of Electronics and Communication Engineering**, expressed gratitude to the Management, Principal, dignitaries on the dias, participants from other Institution, and organizers, faculty & non-teaching staff members, students for their valuable contributions towards the grand success of GSIEEB'25.



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DR. RANI E. K. DORNAN RESEARCH CLUB DEPARTMENT OF BIOMEDICAL ENGINEERING

GLIMPSES OF GSIEEB'25 NATIONAL CONFERENCE





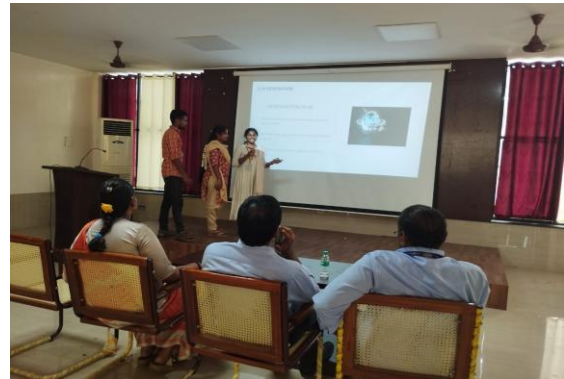
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5. Student Participation Record

S.No	Name	Year / Dept	Event Title	Type of Event	Date	Level	Organized By	Prize
1	Archana C	III/ BME	IEEE Quiz	Quiz Competition	17.03.25	Zonal	IEEE Chennai Chapter	First Prize

6. Faculty Participation/FDP/Conference Record

S.No	Name	Department	Event Title	Type of Event	Date	Level	Organized By
1	BASKAR K	BME	<i>Design Thinking approach and Innovative Practices in Biomedical Additive Manufacturing</i>	AICTE-ATL	25.11.24 TO 30.11.24	National	VCEW-BME
2	BASKAR K	BME	<i>Green Energy and E- Mobility for Sustainable Environment</i>	AICTE-ATL	02.12.24 TO 14.12.24	National	VCEW-EEE



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DR. RANI E. K. DORNAN RESEARCH CLUB DEPARTMENT OF BIOMEDICAL ENGINEERING

ATAL/2024/1732335596






ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
Nelson Mandela Marg, Vasant Kunj, New Delhi -110070
[AICTE Training and Learning \(ATAL\) Academy](#)

Certificate

It is certified that Dr. K BASKAR, Associate Professor of Vivekanandha College of Engineering for Women has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Design Thinking approach and Innovative Practices in Biomedical Additive Manufacturing at VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN from 25/11/2024 to 30/11/2024.


 BASKAR K
 Associate Professor Level (AICTE Institute), Coordinator
 VIVEKANANDHA COLLEGE OF ENGINEERING
 FOR WOMEN


 Dr. Sunil Luthra
 Director & Bureau Head
 Training and Learning Bureau, AICTE

ATAL/2024/1732944877






ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
Nelson Mandela Marg, Vasant Kunj, New Delhi -110070
[AICTE Training and Learning \(ATAL\) Academy](#)

Certificate

It is certified that Dr. K BASKAR, Associate Professor of Vivekanandha College of Engineering for Women has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Green Energy and E-Mobility for Sustainable Environment at VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN from 02/12/2024 to 14/12/2024.


 Kannan P
 Professor Level (AICTE Institute), Coordinator
 VIVEKANANDHA COLLEGE OF ENGINEERING
 FOR WOMEN


 Dr. Sunil Luthra
 Director & Bureau Head
 Training and Learning Bureau, AICTE



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7. Journal Publications (AY 2024–2025)

S. No	Author(s)	Title of Paper	Journal Name	Indexing Scopus /Wos/ SCI/SCIE/Others	Date /Month	ISSN -NO	Status
1	Dr.K.Baskar	Deep Neural Network based Smart Observation and Disease Diagnosis Expert System for Onion Crop	IEEE XPLORE	Scopus	19/05/25		Review under progress

8. Patent Publications (AY 2024–2025)

S.No	Title of Patent	Inventors	Application No.	Date Published	Date of Applied



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9. Project Proposal Submission Detail to various Funding Agency (AY 2024–2025)

S. No.	Title of the Project Proposal	Name of Principal Investigator	Co-Investigators	Funding Agency	Date of Submission	Amount Proposed (Rs.)	Status (Submitted/Under Review /Approved)
1	Development of temperature control using FPID Controller in Poultry Farm	Dr.K.Baskar	Dr.R.Kumar	DST GDC	06.03.25	10 Lakhs	Submitted

Team Name: Farmyard Guardians
 Institute Name: Vivekanandha College of Engineering for Women (Autonomous)

Details of Faculty Leads (Profs. at STEM Institute)

	First Name	Last Name	Role in Start-up	LinkedIn Profile	Nationality	Email	Phone
FL1	Baskar	K	Principal Investigator	www.linkedin.com/in/dr-baskar-k-12865575	Indian	baskar@vcew.ac.in	9791618754
FL2	Kumar	R	Faculty Lead	www.linkedin.com/in/dr-baskar-k-12865575	Indian	bmehod@vcew.ac.in	9941463427

Details of Entrepreneur Leads(Lead Researchers/Founders/Co Founders)

	First Name	Last Name	Current Role(Student/Professional/Other)	Role in Start-up	LinkedIn Profile	Email	Phone
EL1	Jaysri	S	Student	Founder	https://www.linkedin.com/in/jaysrisarasavanan126@gmail.com	jaysrisarasavanan126@gmail.com	6380791611

PROOF FOR SUBMISSION OF PROPOSAL



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DR. RANI E. K. DORNAN RESEARCH CLUB DEPARTMENT OF BIOMEDICAL ENGINEERING

10. Book /Book Chapter Publication detail:



S. No	Author(s)	Title of the Book	Book Chapter Title	Publisher	ISBN.NO	Scopus/Wos/Others	Year of Publication & Month
NIL							

11. ANY New Innovations/Any Other: NIL

R&D COORDINATOR

HOD

HEAD R&D

	<p style="text-align: center;">VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN</p> <p style="text-align: center;">[AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI]</p> <p style="text-align: center;">Elayampalayam - 637 205, Tiruchengode, Namakkal Dt., Tamil Nadu.</p>	
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MANUEL BLUM JOURNAL CLUB
DEPARTMENT OF INFORMATION TECHNOLOGY

ANNUAL REPORT: ACADEMIC YEAR 2024–2025

During the academic year 2024–2025, the MANUEL BLUM JOURNAL Club of the Department of Information Technology actively organized a series of research-oriented events. The club played a pivotal role in fostering a culture of scientific exploration, facilitating industrial exposure, and encouraging student-driven research initiatives. Its activities were closely aligned with national policies on education and innovation, serving as a dynamic platform for academic and professional growth.

1. Organizing Committee:

S. No	Name	Designation / Role
1	Dr. M.Murugan, Head, R & D	Convener
2	Dr. S.Radha, HoD/IT	Co-Convener
3	Dr. A.V.Santhosh Babu, Prof/IT	Faculty Coordinator
4	Ms.A.P.Vanitha, II / M.Tech - IT	Student Member
5	Ms.S.Saradhambal, IV / IT	Student Member
6	Ms.K.Mousigaprabha, IV / IT	Student Member
7	Ms.J.Madhusree, III / IT	Student Member
8	Ms.S.Rathika, III / IT	Student Member
9	Ms.J.Priyadharshini, II / IT	Student Member
10	Ms.G.Shanmathi, II / IT	Student Member



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MANUEL BLUM JOURNAL CLUB

DEPARTMENT OF INFORMATION TECHNOLOGY

1. Objectives of the Research Club

1. To Foster Research Culture

Promote curiosity, critical thinking, and problem-solving among students and faculty by encouraging participation in research activities.

2. To Encourage Student Innovation

Provide a platform for students to explore innovative ideas, design prototypes, and work on real-time research projects relevant to the IT industry.

3. To Support Faculty-Student Collaboration

Facilitate collaborative research opportunities between faculty and students to publish papers, develop projects, and contribute to academic advancement.

4. To Align with National Research Goals

Encourage research initiatives that support national priorities in education, digital innovation, and technology development.

5. To Provide Industrial Exposure

Organize expert talks, industrial visits, and workshops to bridge the gap between academic learning and industry practices.

6. To Facilitate Research Publications and Patents



Guide students and faculty in preparing research papers for reputed journals and conferences, and support the process of filing patents.

7. To Build Research Competency

Equip students with skills in research methodology, data analysis, technical writing, and use of research tools and technologies.

8. To Promote Interdisciplinary Research

Encourage research projects that integrate multiple domains of engineering, fostering a broader scope of innovation.

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MANUEL BLUM JOURNAL CLUB

DEPARTMENT OF INFORMATION TECHNOLOGY

2.Club-Level Outcomes (AY 2024–2025)

1. Research & Innovation

Students develop biomedical research skills, work on innovative projects, and publish papers or present at conferences.

2. Skill Development

Enhances technical, analytical, leadership, and communication skills through hands-on activities and teamwork.

3. Networking & Collaboration

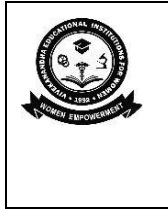
Facilitates collaborations with faculty, industry experts, hospitals, and professional societies; builds a strong professional network.

4. Career Advancement

Increases opportunities for internships, higher education, scholarships, and careers in biomedical research and healthcare industries.

3.Summary of Events Conducted (AY 2024–2025)

S. No	Title of the Event	Chief Guest / Resource Person	Date	No. of Students Benefited
1	“Trends in Technology”	Mr. Sairaman Srinivasan, Chief Strategy Officer, Consortium for Technical Education, CTE, Chennai-600001.	15.07.2024	61
2	“Career Opportunities”	Dr.Shankar Venugopal, Vice President, Mahindra Research Valley, Chennai-600002	21.09.2024	56



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3	“Resume Building”	Mr.Jayasurya Gnanavel, Founder & CEO, Cybernaut Edu-Tech LLP, Karur- 639002.	23.09.2024	62
4	“AI in practice: LLM, RAG and Voice Tech”	Ms.G.Swathi, Data Scientist, Speech Engineer, Prahastech Pvt. Ltd, Hyderabad.	13.11.2024	191
5	“Unleashing Innovation: The Generative AI Revolution”	Mr.Virender Singh, Sr. Consultant, Aspire For Her Foundation, Mumbai-400018	18.11.2024	61
6	“Tech Essentials: Exploring Computer Hardware”	Mr.T.Senthilraja, Managing Director of Green CAD Tech, Rasipuram	17.03.2025	59
7	“Mobile Repair and Maintenance”	Mr. Kaviyaran Service Engineer, Cholan Mobile, Tiruchenogde	27.03.2025	120



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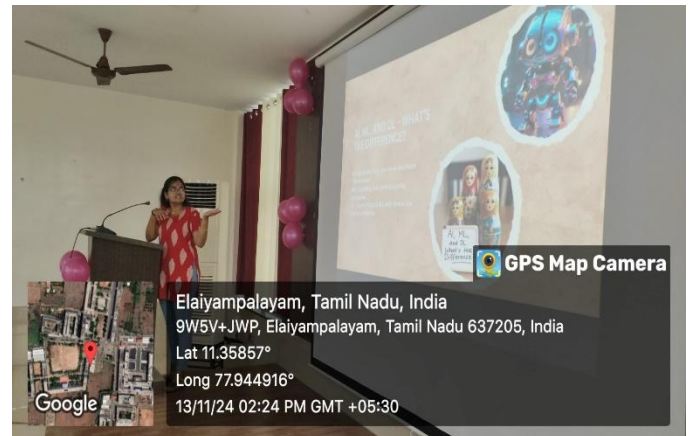
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Photos - Workshop on “Tech Essentials: Exploring Computer Hardware”





Photos – Association Inauguration

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MANUEL BLUM JOURNAL CLUB
DEPARTMENT OF INFORMATION TECHNOLOGY



4.Student Participation Record

S. No	Name	Year / Dept	Event Title	Type of Event	Date	Level	Organized By	Prize
1	M.Santhiya	II/IT	NPTEL Exam	Online Course	JUL-SEP 2024	National	NPTEL	Elite
2	G.Keerthana	IV/IT	NPTEL Exam	Online Course	JUL-SEP 2024	National	NPTEL	Elite
3	G.Snega	IV/IT	NPTEL Exam	Online Course	JUL-SEP 2024	National	NPTEL	Elite
4	T.Selvajanani	III/IT	NPTEL Exam	Online Course	JUL-OCT 2024	National	NPTEL	Elite
5	S.Sabithra	III/IT	NPTEL Exam	Online Course	JUL-OCT 2024	National	NPTEL	Elite
6	K.Subha	III/IT	NPTEL Exam	Online Course	JUL-SEP 2024	National	NPTEL	Elite
7	M.Santhiya	II/IT	NPTEL Exam	Online Course	JUL-SEP 2024	National	NPTEL	Elite
8	S.Varshini	IV/IT	NPTEL Exam	Online Course	JUL-SEP	National	NPTEL	Elite

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MANUEL BLUM JOURNAL CLUB
DEPARTMENT OF INFORMATION TECHNOLOGY

					2024			
9	S.Arthi	IV/IT	NPTEL Exam	Online Course	JUL-OCT 2024	National	NPTEL	Elite With Silver
10	R.Swathi	IV/IT	NPTEL Exam	Online Course	JUL-OCT 2024	National	NPTEL	Elite With Silver
11	C.Vaishnavi	I/IT	Cipher Chase	Symposium	21.09.24	National	Kongunadu College of Engg. and Technology	Third Place
12	C.Vaishnavi	II/IT	Presentation	Symposium	21.09.24	National	Kongunadu College of Engg. and Technology	Third Place
13	V.Dhivya	II/IT	Presentation	Symposium	21.09.24	National	Kongunadu College of Engg. and Technology	Third Place
14	A.Divyasri	II/IT	Presentation	Symposium	21.09.24	National	Kongunadu College of Engg. and Technology	Third Place
15	J.Madhusree	III/IT	Quiz	ICT Mega Quiz	02.04.2025	National	KPR Institute	Second Place

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							of Technology	
16	K.Swathi	III/IT	Project Presentation	Project Presentation	20.07.24	National	Quality Circles Forum of India Chennai Chapter	Platinum Award
17	S.Hansika	III/IT	Project Presentation	Project Presentation	20.07.24	National	Quality Circles Forum of India Chennai Chapter	Platinum Award
18	V.Keerthana	III/IT	Project Presentation	Project Presentation	20.07.24	National	Quality Circles Forum of India Chennai Chapter	Platinum Award
19	B.Keerthana	III/IT	Project Presentation	Project Presentation	20.07.24	National	Quality Circles Forum of India Chennai Chapter	Platinum Award

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MANUEL BLUM JOURNAL CLUB
DEPARTMENT OF INFORMATION TECHNOLOGY

5.Faculty Participation/FDP/Conference Record



SEMINARS/COFERENCE/WORKSHOP/FDP – ATTENDED BY FACULTY

SEMINARS – ATTENDED BY FACULTY

S. No.	Event	Name of the faculty	National / International	Date	Topic	Name of the college
1.	Webinar	Ms.T.Janani	International	29.06.2024	ELT – Innovating Traditional Teaching Materials to suit the needs of 21 st Century	Nucleus of Learning and Development



CONFERENCE – ATTENDED BY FACULTY

S. No.	Event	Name of the faculty	National / International	Date	Topic	Name of the college
1.	Conference	Mr.D.Justin Jose	International	29.03.2025	A digital platform for Realtime price discovery and market access	Sree Sakthi Engineering College

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2.	Conference	Mrs.S.Brindha	International	29.03.25	3D model industrial learning system	Sree Sakthi Engineering College
3.	Conference	Ms.P.Sudha	International	29.03.25	Smart Water Monitoring System Using One Class SVM	Sree Sakthi Engineering College
4.	Conference	MS.G.Gomathi	International	29.03.25	Smart Logistics Guard: Preventing Theft & Ensuring Fifo Compliance In Supply Chains	Sree Sakthi Engineering College
5.	Conference	Dr.S.Radha	International	28.03.25	Waste collecting Robot in the ocean	Muthayammal College of Engineering
6.	Conference	Ms.C.Visali	International	28.03.25	Smart Learning Pathways	Muthayammal College of Engineering

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7.	Conference	Ms.R.Logambal	International	28.03.25	Smart Traffic Management System	Muthayammal College of Engineering
8.	Conference	Mrs.B.Madhubala	International	28.03.25	Welfare Web: Website for Socio-Economic background Schemes with Chatbot	Muthayammal College of Engineering
9.	Conference	Ms.I.Kalaiyarasi	International	21.03.25 & 22.03.25	Real Time Hospital Management and Patient Monitoring System	Velammal Institute of Technology
10.	Conference	Ms.S.Merena	International	21.03.25 & 22.03.25	IOT-Enabled Waste Segregation And Recycling System For Sustainable Urban Waste Management	Velammal Institute of Technology

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11.	Conference	Mr.E.Thangadurai	International	21.03.25 & 22.03.25	Optimizing Inventory Management with Machine Learning: Real-Time Tracking and Automated Fulfillment for Small Warehouses	Annapoorana Engineering College
12.	Conference	Mrs.T.Janani	International	21.03.25 & 22.03.25	Personalized Career Guidance Too	Annapoorana Engineering College
13.	Conference	Dr.S.Radha	International	14.03.25 & 15.03.25	A Robus System for Secure and Transparent Seller Registration	KIT-Kalaingar Karunanithi Institute of Technology
14.	Conference	Dr.A.V.Santhosh Babu	International	03.03.25 & 04.03.25	Health Tech Platform For Remote Patient Data Acquisition And Care Delivery	Erode Sengunthar Engineering College

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15.	Conference	Mr.E.Thangadurai	International	03.03.25 & 04.03.25	Deaf Companion System for Inclusive Communication Between Deaf and Hearing Individuals using Artificial Intelligence	Erode Sengunthar Engineering College
16.	Conference	Ms.C.Visali	International	08.10.24 & 09.10.24	Transforming Homes into Smart Havens : Advanced Control with NodeMCU and Android Technology	Sri Sairam Engineering College, Chennai
17.	Conference	Dr.A.V.SanthoshBabu	International	01.10.24 to 03.10.24	Optimizing Intrusion Detection systems for Energy Consious MANET's	Erode Sengunthar Engineering College

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18.	Conference	Dr.A.V. Santhosh Babu	International	01.10.24 to 03.10.24	Analysing the Efficiency of an Ethereum-Driven Cyber security model in Cloud Computing	Erode Sengunthar Engineering College
19.	Conference	Dr.A.V.SanthoshB abu	International	04.09.24 & 05.09.24	Improving the Performance of EthereumBlockchain Cyber Secured Cloud Computing Model	Anna University, Chennai20
20.	Conference	Mrs. A.Sumathi	International	26.02.25	District Administration Real-Time Monitoring Dashboard	Vivekanandha college

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DEPARTMENT OF INFORMATION TECHNOLOGY

WORKSHOP - ATTENDED BY FACULTY

S. No.	Event	Name of the faculty	National / International	Date	Topic	Name of the college
1.	Workshop	Ms.B.Madhubala	International	28.11.2024	Connect, Simulate and Innovate using Arduino on Cloud	FOSSEE and Spoken Tutorial Project, IIT Bombay



FACULTY DEVELOPMENT PROGRAMME

S.No.	Event	Name of the faculty	Date	Topic	Name of the college
1.	FDP	Mr.D.Justin Jose	Jan-Apr 2025	Cloud Computing	NPTEL

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2.	FDP	Ms.I.Kalaiyarasi	10.03.2025 & 26.03.2025	Artificial Intelligence- Honeywell Student Empowerment Program	VCEW
3.	FDP	Ms.G.Gomathi	13.03.2025 & 14.03.2025	Data Driven Diagnostics in Scientific Research	M.Kumarasamy College of Engineering
4.	FDP	Ms.G.Gomathi	15.02.2025	Data Science using Python	RP Sarathy Institute of Technology
5.	FDP	Ms.R.Logambal	03.02.2025 to 08.02.2025	Innovative Design Thinking Strategies for Next Generations AI Solutions	ATAL Academy
6.	FDP	Ms.C.Visali	03.02.2025 to 08.02.2025	Innovative Design Thinking Strategies for Next Generations AI Solutions	ATAL Academy

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7.	FDP	Mr.D.Justin Jose	03.02.2025 to 07.02.2025	Exploring Entrepreneurial Opportunities: AI & IoT in Industry 4.0	PSG CAS, Coimbatore
8.	FDP	Ms.P.Sudha	27.01.2025 to 01.02.2025	Empowering Society : Leveraging Advanced Communications Technologies for a Connected and Resilient Future	ATAL Academy- Velalar College of Engineering
9.	FDP	Ms.I.Kalaiyarasi	27.01.2025 to 01.02.2025	Empowering Society : Leveraging Advanced Communications Technologies for a Connected and Resilient Future	ATAL Academy- Velalar College of Engineering
10.	FDP	Ms.R.Logambal	27.01.2025 to 01.02.2025	Empowering Society : Leveraging Advanced Communications Technologies for a	ATAL Academy- Velalar College of Engineering

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				Connected and Resilient Future	
11.	FDP	Ms.T.Janani	27.01.2025 to 31.01.2025	UiPath Robotics Process Automation	E & ICT Academy
12.	FDP	Ms.B.Madhubala	27.01.2025 to 31.01.2025	UiPath Robotics Process Automation	E & ICT Academy
13.	FDP	Ms.I.Kalaiyarasi	27.01.2025 to 31.01.2025	UiPath Robotics Process Automation	E & ICT Academy
14.	FDP	Mr.D.Justin Jose	20.01.2025 to 25.01.2025	AI Powered Learning : Shaping the Future of Education	VICAS
15.	FDP	Ms.C.Visali	06.01.2025 to 11.01.2025	Revolutionizing Agriculture through AI Models,	ATAL Academy

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				Practices and Interventions	
16.	FDP	Ms.B.Madhubala	16.12.2024 to 21.12.2024	Generative AI: Innovations in Creativity, Industry Applications and Ethical Challenges	Sri Shanmugha College of engineering and Technology
17.	Training	Ms.B.Madhubala	10.12.2024	Virtual Domain Specific Training on Virtual labs	National Mission on Education through ICT
18.	FDP	Ms.P.Sudha	10.12.2024	VLAB Domain Intensive Session	PALS
19.	FDP	Ms.C.Visali	02.12.2024 to 07.12.2024	Quantum Neuromorphic Computing for Viable and Sustainable Generative AI	ATAL Academy
20.	FDP	Ms.G.Gomathi	28.11.24 to 30.11.24	FDP on Effective Communication	VCEW

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21.	FDP	Ms.P.Sudha	28.11.2024	Connect, Simulate and Innovate using Arduino on Cloud	IIT Spoken Tutorial
22.	FDP	Mr.E.Thangadurai	25.11.2024 To 30.11.2024	Recent Advancements in AI IoT	Periyar Maniyammai Institute of Technology
23.	FDP	Ms.G.Gomathi	16.11.2024	Quality Reaearch Writing and Publishing	VICAS
24.	FDP	Ms.R.Logambal	July-Oct 2024	Advanced Distributed Systems	NPTEL
25.	FDP	Ms.I.Kalaiyarasi	July-Oct 2024	Design and Implementation of Human-Computer Interfaces	NPTEL
26.	FDP	Ms.T.Janani	July - NOV 2024	Introduction to Industry 4.O and Industrial Internet of Things	NPTEL

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27.	FDP	Mr.D.Justin Jose	25.10.2024 to 26.10.2024	Origin Lab	PG & Research Department of Computer Science & Applications, VICAS
28.	FDP	Ms.P.Sudha	25.10.2024 to 26.10.2024	Origin Lab	PG&Research Department of Computer Science & Applications, VICAS
29.	FDP	Ms.C.Visali	21.10.2024 to 25.10.2024	Programming Essentials in Python (Online Live FDP)	ICT Academy
30.	Training	Ms.R. Logambal	21.10.2024	IEEE Training on “IEEE Xplore”	EBSCO Information services
31.	Training	Ms.C.Visali	21.10.2024	IEEE Training on “IEEE Xplore”	EBSCO Information services

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32.	Training	Ms.T.Janani	21.10.2024	IEEE Training on “IEEE Xplore”	EBSCO Information services
33.	Training	Ms.R. Logambal	15.10.2025	Basics of Networking and Cloud Computing	KGISL, Coimbatore
34.	Training	Ms.C.Visali	15.10.2025	Basics of Networking and Cloud Computing	KGISL, Coimbatore
35.	Training	Ms.T.Janani	15.10.2025	Basics of Networking and Cloud Computing	KGISL, Coimbatore
36.	Training	Ms.I.Kalaiyarasi	15.10.2025	Basics of Networking and Cloud Computing	KGISL, Coimbatore
37.	Training	Mr.E.Thangadurai	15.10.2025	Basics of Networking and Cloud Computing	KGISL, Coimbatore
38.	FDP	Mr.E.Thangadurai	July - Sep 24	Introduction to Machine Learning	NPTEL

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39.	FDP	Ms.B.Madhubala	July - Sep 24	Research Methodology	NPTEL
40.	FDP	Ms.A.Sumathi	July - Sep 24	Data Science for Engineers	NPTEL
41.	FDP	Ms.S.Brindha	July - Sep 24	Data Science for Engineers	NPTEL
42.	FDP	Ms.R. Logambal	16.09.2024 to 20.09.2024	Cryptography and Network Security	Erode Sengunthar Engineering College
43.	FDP	Dr.A.V.Santhosh Babu	16.09.2024 to 20.09.2024	Cryptography and Network Security	Erode Sengunthar Engineering College
44.	FDP	Ms.T.Janani	16.09.2024 to 20.09.2024	Cryptography and Network Security	Erode Sengunthar Engineering College
45.	FDP	Ms.C.Visali	16.09.2024 to	Cryptography and Network Security	Erode Sengunthar

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			20.09.2024		Engineering College
46.	FDP	Dr.A.V.Santhosh Babu	02.09.2024 to 14.09.2024	Embark on a Hands on journey into Artificial Intelligence Mastery	Erode Sengunthar Engineering College
47.	FDP	Ms.T.Janani	02.09.2024 to 14.09.2024	Embark on a Hands on journey into Artificial Intelligence Mastery	Erode Sengunthar Engineering College
48.	FIP	Ms.G.Gomathi	31.08.2024	Faculty Induction Program	IQAC , VCEW
49.	FIP	Ms.B.Madhubala	31.08.2024	Faculty Induction Program	IQAC , VCEW
50.	FIP	Ms.A.Sumathi	31.08.2024	Faculty Induction Program	IQAC , VCEW
51.	FIP	Ms.S.Brindha	31.08.2024	Faculty Induction Program	IQAC , VCEW

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52.	FDP	Ms.G.Gomathi	16.08.2024 & 17.08.2024	Deep Learning and IoT in Precision Healthcare	Kongu Engineering College
53.	FDP	Ms.S.Merena	09.08.2024 to 12.08.2024	Full Stack Development by GUVI	Vivekanandha College of Engineering for Women
54.	FDP	Ms.G.Gomathi	09.08.2024 to 12.08.2024	Full Stack Development by GUVI	Vivekanandha College of Engineering for Women
55.	FDP	Ms.I.Kalaiyarasi	09.08.2024 to 12.08.2024	Full Stack Development by GUVI	Vivekanandha College of Engineering for Women
56.	FDP	Ms.B.Madhubala	09.08.2024 to 12.08.2024	Full Stack Development by GUVI	Vivekanandha College of Engineering for Women

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57.	FDP	Ms.A.Sumathi	09.08.2024 to 12.08.2024	Full Stack Development by GUVI	Vivekanandha College of Engineering for Women
58.	FDP	Mr.D.Justin Jose	09.08.2024 & 10.08.2024	Full Stack Development	GUVI Geek Pvt Ltd.
59.	FDP	Dr.A.V.SanthoshBa bu	22.07.2024 to 26.07.2024	OpenCV for Image and Video Processing Applications	Erode Sengunthar Engineering College
60.	FDP	Ms.T.Janani	22.07.2024 to 26.07.2024	OpenCV for Image and Video Processing Applications	NITTR, Chandigarh
61.	FDP	Ms.R.Logambal	22.07.2024 to 26.07.2024	Microsoft Azure AI Engineer Associate	ICT ACADEMY

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62.	FDP	Ms.A.Sumathi	22.07.2024 to 26.07.2024	Microsoft Azure AI Engineer Associate	ICT ACADEMY
63.	FDP	Ms.P.Sudha	22.07.2024 to 26.07.2024	Microsoft Azure AI Engineer Associate	ICT ACADEMY
64.	FDP	Ms.I.Kalaiyarasi	05.07.2024 & 06.07.2024	Basic FDP in AICTE IDEA Lab	AICTE IDEA Lab
65.	FDP	Ms.B.Madhubala	05.07.2024 & 06.07.2024	Basic FDP in AICTE IDEA Lab	AICTE IDEA Lab
66.	FDP	Ms.S.Brindha	06.06.2024 to 08.06.2024	Inculcating Universal Human Values in Technical Education	AICTE at KSRCT



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67.	FDP	Mrs.A.Sumathi	27.01.2025 to 01.02.2025	Empowering Society : Leveraging Advanced Communications Technologies for a Connected and Resilient Future	ATAL Academy- Velalar College of Engineering
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ONLINE COURSE – ATTENDED BY FACULTY

S. No.	Event	Name of the faculty	Date	Topic	Name of the college
1.	Online Course	Mr.D.Justin Jose	Jan-Apr 2025(12 Weeks)	Cloud Computing	NPTEL
2.	Online Course	Dr.S.Radha	Jul-Oct 2024 (12 Weeks)	Practical Cyber Security for Cyber Security Practitioners	NPTEL
3.	Online Course	Mr.E.Thangadurai	Jul-Sep 2024 (08 Weeks)	Introduction to Machine Learning	NPTEL
4.	Online Course	Mr.E.Thangadurai	Aug-Oct 2024	Google Cloud Computing	NPTEL

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			(12 Weeks)		
5.	Online Course	Ms.R.Logambal	Jul-Oct 2024 (12 Weeks)	Advanced Distributed Systems	NPTEL
6.	Online Course	Ms.C.Visali	Aug-Oct 2024 (12 Weeks)	Big Data Computing	NPTEL
7.	Online Course	Ms.S.Merena	Jul-Oct 2024 (12 Weeks)	Cloud Computing	NPTEL
8.	Online Course	Ms.T.Janani	Jul-Oct 2024 (12 Weeks)	Introduction to Industry 4.0 and Industrial Internet of Things	NPTEL
9.	Online Course	Ms.T.Haritha	Jul-Oct 2024 (12 Weeks)	Cloud Computing	NPTEL
10.	Online Course	Ms.T.Haritha	Jul-Oct 2024	Social Network Analysis	NPTEL

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			(12 Weeks)		
11.	Online Course	Ms.S.Brindha	Jul-Sep 2024 (08 Weeks)	Data Science for Engineers	NPTEL
12.	Online Course	Ms.I.Kalaiyarasi	Jul-Oct 2024 (12 Weeks)	Design and Implementation of Human-Computer Interfaces	NPTEL
13.	Online Course	Ms.B.Madhubala	Jul-Sep 2024 (08 Weeks)	Research Methodology	NPTEL
14.	Online Course	Mr.D.Justin Jose	Jul-Oct 2024 (12 Weeks)	The Joy of Computing using Python	NPTEL
15.	Online Course	Ms.G.Gomathi	Aug-Oct 2024 (12 Weeks)	Google Cloud Computing	NPTEL
16.	Online Course	Ms.A.Sumathi	Jul-Sep 2024	Data Science for Engineers	NPTEL

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			(08 Weeks)		
17.	Online Course	Dr.V.Hemalatha	Jul-Oct 2024 (12 Weeks)	Engineering Mathematics-I	NPTEL
18.	Online Course	Dr.V.Hemalatha	Jul-Aug 2024 (04 Weeks)	Design Thinking – A Primer	NPTEL
19.	Online Course	Ms.A.Preethi	Jul-Oct 2024 (12 Weeks)	Basic Environmental Engineering and Pollution Abatement	NPTEL
20.	Online Course	Mr.S.Tamilvanan	Jul-Oct 2024 (12 Weeks)	Metal Additive Manufacturing	NPTEL
21.	Online Course	Ms.I.Kalaiyarasi	12.08.2024	IA Training- Foundation level	Innovation Ambassador (Online Platform)
22.	Online Course	Ms.I.Kalaiyarasi	12.08.2024	IA Training- Advanced level	Innovation Ambassador



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					(Online Platform)
23.	Online Course	Ms.I.Kalaiyarasi	12.08.2024	IA Training- Reskilling level	Innovation Ambassador (Online Platform)



6.Journal Publications (AY 2024–2025)

S.No.	Name of the Author(s)	UGC/ Scopus/ Others	Publication date	Name of the journal	Title of the paper	ISSN no.
1	Ms.P.Sudha	UGC 7.4	May 2025	IJRASET	Predicting the Severity of Road Accidents Using Deep Learning and Transfer Learning Approaches	ISSN : 2321-9653 Vol.13 / Issue V
2	Dr.S.Radha	SCI	APRIL 2025	Concurrency and Computation : Practice	HoneyFed Adaptive Deception With Federated Learning Strategy for Next-Generation	ISSN : 1532 - 0634

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				and Experience	Robust MANET Security	Vol.37 / Issue 9-11
3	Dr.S.Radha	7.7	APRIL 2025	IJRAR	Waste collecting Robot in the ocean	ISSN : 2349-5138 Vol.12 / Issue 2
4	Dr.A.V.Santhosh Babu	SCI/Scopus	APRIL 2025	ECS Journal of Solid State Science and Technology	Cognitive Edge-Driven Data Handling across Distributed Sensor Nodes for Robust Communication Networks	ISSN : 2162-8777 Vol.14 / Issue 4
5	Dr.A.V.Santhosh Babu	UGC	APRIL 2025	ICTACT Journal on Soft Computing	A Deep Stacking Network Model Of Antiviral-HPV Protein Interaction Prediction	ISSN : 2229-6956 Vol.16 / Issue 1
6	Ms.C.Visali	7.7	APRIL 2025	IJRAR	Smart Learning Pathways	ISSN : 2349-5138 Vol.12 / Issue 2

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7	Ms.R.Logambal	7.7	APRIL 2025	IJRAR	Smart Traffic Management System	ISSN : 2349-5138 Vol.12 / Issue 2
8	Ms.B.Madhubala	7.7	APRIL 2025	IJRAR	Website for Socio-Economic Background Schemes with Chatbot	ISSN : 2349-5138 Vol.12 / Issue 2
9	Ms.G.Gomathi	Scopus Indexed 6.3	February 2025	GRADIVA REVIEW JOURNAL	IoT framework for smart poultry with intelligent decision making using fuzzy logic	ISSN : 0363-8057 Vol.11 / Issue 1
10	Ms.P.Sudha	7.17	Jan 2025	IJRAR	Comprehensive Survey on Automated Approach to Predict Road Traffic Accident Severity with Transformer Learning and Explainable AI Techniques	ISSN : 2349-5138 Vol.12 / Issue 1

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11	Dr.A.V.Santhosh Babu	SCI/ Scopus	Jan 2025	SCI/ Scopus	Empowering WBANs: Enhanced Energy Efficiency Through Cluster-Based Routing and Swarm Optimization	ISSN : 2073-8994 Vol.17 / Issue 1
12	Dr.A.V.Santhosh Babu	SCI/ Scopus	July 2024	Scopus	Early-stage stroke prediction based on Parkinson and wrinkles using deep learning	ISSN : 1433-3058 Vol.36 / Issue 1

7. Patent Publications (AY 2024–2025)

S. No	Title of Patent	Inventors	Application No.	Date Published	Date of Applied
1	Waste collecting Robot in the ocean	Ms.C.Visali AP / IT	20254041541	30.05.2025	17.04.2025
2.	Waste collecting Robot in the ocean	Dr.S.Radha ASP/ IT	20254041541	30.05.2025	17.04.2025
3.	Autism Detection using Pre-Trained models in Machine Learning	Dr.A.V.Santhosh Babu	202441059195A	09.08.2024	05.08.2024



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(12) PATENT APPLICATION PUBLICATION	(21) Application No.202541041541 A
(19) INDIA	
(22) Date of filing of Application :30/04/2025	(43) Publication Date : 30/05/2025
(54) Title of the invention : WASTE COLLECTING ROBOT IN THE OCEAN	
(51) International classification : B65F0001140000, B63H0013520000, E02B0015100000, G05B0019042000, G05D0001000000	(71) Name of Applicant : 1)SRUBRAMANI RADHIA Address of Applicant : Associate Professor, Vivekanandha College of Engineering for Women, Tiruchengode ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No : NA Filing Date : NA	(72) Name of Inventor : 1)SRUBRAMANI RADHIA Address of Applicant : Associate Professor, Vivekanandha College of Engineering for Women, Tiruchengode ----- 2)Ms.C.VISALI Address of Applicant : ASSISTANT PROFESSOR, DEPARTMENT OF INFORMATION TECHNOLOGY VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN Namakkal ----- 3)Dr.C.APARNA Address of Applicant : ASSISTANT PROFESSOR DEPARTMENT OF INFORMATION TECHNOLOGY SENGUNTHAR ENGINEERING COLLEGE Namakkal -----
(87) International Publication No : NA	4)Dr.C.AARTHII Address of Applicant : PROFESSOR DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING SENGUNTHAR ENGINEERING COLLEGE Namakkal -----
(61) Patent of Addition to Application Number : NA Filing Date : NA	5)Ms.M.MADHUMITHA Address of Applicant : JV B.Tech. IT VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN Namakkal -----
(62) Divisional to Application Number : NA Filing Date : NA	6)Ms.S.JAYASRI Address of Applicant : JV B.Tech. IT VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN Namakkal ----- 7)Ms.B.SHRIRANJANI Address of Applicant : JV B.Tech. IT VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN Namakkal ----- 8)Ms.G.SNEGA Address of Applicant : JV B.Tech. IT VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN Namakkal -----
(57) Abstract : The Dispersion of plastic waste in water bodies poses a significant threat to aquatic life and biodiversity. As a solution to the issue, the Waste Collecting Robot in the ocean is an autonomous waste collection system designed to efficiently remove waste from rivers and other water bodies. The system has an Arduino Uno microcontroller as the control system, utilizing a variety of sensors and actuators for real-time waste detection and collection. A conveyor system efficiently transports the collected plastic waste into waste bins. The robot is remotely controlled using a Bluetooth module, enabling users to direct it to specific locations. An ultrasonic sensor also detects the waste bin level and triggers an alarm when full. Through the application of automation and sensor-based technology, the system enhances waste collection efficiency while reducing manual effort. The project helps in environmental conservation by avoiding the adverse impact of plastic pollution on aquatic life, promoting sustainable waste management. No. of Pages : 13 No. of Claims : 6	

8.Project Proposal Submission Detail to various Funding Agency (AY 2024–2025)



S. No.	Title of the Project Proposal	Name of Principal Investigator	Co-Investigators	Funding Agency	Date of Submission	Amount Proposed (Rs.)	Status (Submitted/Under Review/Approved)
1	Safety tech and IOT for public safety domain	T.HARITHA	Dr. A.V. SANTHOSH BABU	DST and GDC	20.2.2025	1.5 lakhs	SUBMITTED

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9. Book / Book Chapter Publication detail:



S. No	Author (s)	Title of the Book	Book Chapter Title	Publisher	ISBN.NO / DOI	Scopus/Wos /Others	Year of Publication & Month
1	Ms.C.Visali AP / IT	Recent Advances in Applied Sciences	Enhancing Healthcare Infrastructure Through Smart Solutions	Springer	https://doi.org/10.1007/978-3-031-84335-8_19 / 978-3-031-84335-8	Scopus	08 June 2025
2.	Dr.S.Radha ASP /IT	Recent Advances in Applied Sciences	Towards Smarter Cities: Integration of Technology and Infrastructure	Springer	https://doi.org/10.1007/978-3-031-84335-8_6 / 978-3-031-84335-8	Scopus	08 June 2025

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MANUEL BLUM JOURNAL CLUB
DEPARTMENT OF INFORMATION TECHNOLOGY



3.	Mrs.A.Sumathi	IoT for Beginners : A Step by Step Guide	-	Notion Press	https://notionpress.com/in/read/iot-for-beginners-a-step-by-step-guide?utm_source=share_publisher_email	ISBN	18 March 2025
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S. No.	Name of the faculty	Name of the book / book chapter	Topic	ISBN No.	Publisher name	Publication date
	Dr.S.Radha	Book Chapter	Towards Smarter Cities: Integration of Technology and Infrastructure	https://doi.org/10.1007/978-3-031-84335-8_6 / 978-3-031-84335-8	Springer Nature	08.06.2025
	Ms.C.Visali	Book Chapter	Enhancing Healthcare Infrastructure Through Smart Solutions	https://doi.org/10.1007/978-3-031-84335-8_19 / 978-3-031-84335-8	Springer Nature	08.06.2025
	Ms.G.Gomathi	Book	The Rise of Artificial Intelligence: Transforming our World	ISBN: 978-93-48556-57-8	Pencil Bitz	15.04.2025

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	Ms.C.Visali	Book Chapter	Advanced Techniques for Human-Centric Sensing in Environmental Monitoring	ISBN: 9781394310869	Wiley	Feb 2025
	Dr.S.Radha Ms.C.Visali Ms.R.Logambal	Book Chapter	Applications, Requirements , Architectures , Security Issues and Emerging Motivation for Smarter Healthcare	DOI :10.4018/979-8-3693-2268-0.ch007	IGI Global (Scopus Indexed)	August 2024
	Dr.S.Radha	Book Chapter	An Extensive Investigation of Meta-Heuristics Algorithms for Optimization Problems	DOI : 10.4018/979-8-3693-3314-3.ch012	IGI Global	July 2024

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	Ms.P.Sudha	Book	Deep Learning in Healthcare:Unlocking the potential of medical data	ISBN-13 979-8894758701	Notion Press	July 2024
	Ms.S.Brindha					

ANY New Innovations/Any Other:

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John McCarthy Research Club

DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY

ANNUAL REPORT: ACADEMIC YEAR 2024–2025

The John McCarthy Research Club of the Department of Computer Science and Technology actively organized a range of research-focused events throughout the 2024–2025 academic year. The club played a pivotal role in fostering scientific inquiry, enhancing industrial exposure, and encouraging student-led research initiatives in line with national education and innovation policies.

1. Organizing Committee:

S.No	Name	Designation / Role
1	Dr.M.Murugan, Head / R & D	Convener
2	Dr.M.Sayee Kumar, HoD/CST	Co-Convener
3	Dr.N.Magendiran, Prof/CST	Faculty Coordinator
4	P.S.Vidhyavasini, IV CST	Student Member
5	S.Suruthi, IV CST	Student Member
6	M.Monika, III CST	Student Member
7	B.Marushini, III CST	Student Member
8	M.Safiyya Muhsina, II CST	Student Member
9	M.Dharani, II CST	Student Member

2. Objectives of the Club

- Promote Research Culture:** To cultivate a strong research mindset among undergraduate students through lectures, workshops, and hands-on sessions.



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John McCarthy Research Club

DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY

2. **Bridge Academia and Industry:** To expose students to real-time industrial challenges and research commercialization pathways by inviting industry professionals and research experts.
3. **Encourage Innovation and Entrepreneurship:** To motivate students to transform lab-based innovations into viable products and solutions for societal benefit.
4. **Strengthen Interdisciplinary Knowledge:** To integrate cross-domain knowledge such as electronics, biomedical, IOT and sustainable technologies into Computer Technology.
5. **Enhance Career and Research Readiness:** To support students in setting clear academic and professional goals aligned with research and higher education opportunities.

3. Club-Level Outcomes (AY 2024–2025)

1. Research & Innovation

Students develop Computer research skills, work on innovative projects, and publish papers or present at conferences.

2. Skill Development

Enhances technical, analytical, leadership, and communication skills through hands-on activities and teamwork.

3. Networking & Collaboration

Facilitates collaborations with faculty, industry experts, and professional societies; builds a strong professional network.

4. Career Advancement

Increases opportunities for internships, higher education, scholarships, and careers in Computer Science and Technology.



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4. Summary of Events Conducted (AY 2024–2025):

S.No	Title of the Event	Chief Guest / Resource Person	Date	No. of Students Benefited
1	Skill India –Innovation Awareness Program	Dr.N.Magendiran, Professor, Department of CST, Vivekanandha College of Engineering for Women, Tiruchengode	03.03.2025	60

4.1 Detailed Event Report

1. Skill India –Innovation Awareness Program Computer science and technology Students

- Date: 03.03.2025
- Venue: Data Science Laboratory
- Chief Guest: **Dr.N.Magendiran, Professor, Department of CST, Vivekanandha College of Engineering for Women, Tiruchengode**

Objectives:

- To promote innovation in skill development, empower trainers and youth, bridge industry gaps, and support national goals like Atmanirbhar Bharat and Make in India..

Outcomes:

- Increased awareness of innovation among participants
- Improved teaching with creative methods
- New student-led innovative projects
- Stronger industry-institution collaboration
- Growth in entrepreneurial mindset
- Better use of digital tools in training
- Greater focus on innovation in skilling policies



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Conclusion:

The program successfully built a foundation for innovation in skilling, encouraging creativity and entrepreneurship. Continued efforts will help create a future-ready, innovative workforce.



- GLIMPSES OF **Skill India –Innovation Awareness Program** Computer science and technology Students by Dr.N.Magendiran, Professor, Department of CST, Vivekanandha College of Engineering for Women, Tiruchengode

5. Student Participation Record

S.No	Name	Year / Dept	Event Title	Type of Event	Date	Level	Organized By	Prize
1	Ms.Gopikashri R	II-CST	IEEE CS MADRAS mega ICT quiz	QUIZ	07.04.25	-	Vivekanandha college of engineering for women	2nd prize



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John McCarthy Research Club

DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY

6. Faculty Participation/FDP/Conference Record

S. No	Name	Department	Event Title	Type of Event	Date	Level	Organized By
1.	Mrs.S.Gowsika	CST	Data Driven Prediction and Drift Enhancement with Heterogeneous Graph Analysis	Conference	21.02.2025 to 22.02.2025	International	INCOFT-2025
2	Mrs.M.Priyanka	CST	Optimized Medical Data Storage and query Retrieval using Cloud –Based Multi-Indexing	Conference	21.02.2025 to 22.02.2025	International	INCOFT-2025

7. Journal Publications (AY 2024–2025)

S. No	Author(s)	Title of Paper	Journal Name	Indexing Scopus/Wos/SCI/SIE/Others	Date /Month	ISSN-NO	Status
1	Dr.N.Magendiran	An Energy-Efficient Bio-Inspired Mobility-Aware Cluster p-WOA Algorithm for Intelligent Whale Optimization and Fuzzy-Logic-B	International Journal of Computational Intelligence Systems	SCI, Scopus	Oct 2024	https://doi.org/10.1007/s44196-024-00651-0	Published



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DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY

		ased Zonal Clustering Algorithm in FANET					
2.	Dr.N.Magendiran	Enhanced subtraction-average -based optimizer and blockchain for security and load balancing in fog computing	Wireless Networks	SCI, Scopus	Dec 2024	https://doi.org/10.1007/s11276-024-03869-0	Published
3.	Dr.N.Magendiran	Designing and Developing A Comprehensive Learning Management System	International Journal of Advanced Research in Science, Communication and Technology	UGC	April 2025	2581-9429	Published
4.	Dr.N.Magendiran	Enhancing Loan Waiver Processing System using Machine Learning and Image Processing	Journal of Emerging Technologies and Innovative Research	UGC	April 2025	2349-5162	Published
5.	Mr.R.Senthil kumar	DevOps in 2025: Trends, Innovations, and the Path Ahead	International Journal of Scientific Research in Engineering and Management	UGC	Jan 2025	2582-3930	Published



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John McCarthy Research Club

DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY

8. Patent Publications (AY 2024–2025)

S.No	Title of Patent	Inventors	Application No.	Date Published	Date of Applied
NIL					

9. Project Proposal Submission Detail to various Funding Agency (AY 2024–2025)

S. No	Title of the Project Proposal	Name of Principal Investigator	Co-Investigators	Funding Agency	Date of Submission	Amount Proposed (Rs.)	Status (Submitted /Under Review/Approved)
1.	Innovative Design Thinking Strategies for Next Generation AI Solutions	Dr.M.Sayee kumar	Dr.N.Mage ndiran	AICTE	21.11.24	1,00,000	Under review
2.	Education 4.0 – Transforming Learning through Artificial Intelligence, Internet of Things and Bigdata	Dr.N.Magendiran	Dr.M.Saye ekumar	ICSSR	01.02.25	3,00,000	Under review
3.	H2O for Scalable Machine Learning	Dr.M.Sayee kumar	S.Gowsika	CSIR	15.02.25	2,50,000	Under review
4.	Smart Computing and Edge Intelligence	S.Fowjiya	Dr.M.Saye ekumar	ANRF-SERB	24.02.25	1,60,000	Under review



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DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY

10. Book /Book Chapter Publication detail:

S. No	Author (s)	Title of the Book	Book Chapter Title	Publisher	ISBN.NO	Scopus/Wos/Others	Year of Publication & Month
1	Dr.N.Magendiran	Interdisciplinary approaches to AI, Internet of everything and Machine Learning	-	IGI Global	DOI: 10.4018/979-8-3373-1032-9.ch011	Others	2025
2	Ms.V. Kavitha	The Rise of Artificial Intelligence: Transforming Our World	-	Pencil Bitz	978-93-48556-57-8	Others	2025
3	Mrs.D.Annie Selina	IoT for beginners: A step by step guide	-	Notion Press	979-889777030-4	Others	2025
4	Mrs.S.Gowsika	Foundations of Data Science	-	Charulatha Publications	978-93-6260-595-5	Others	2025
5	Mrs.M.Priyanka	Blockchain Security: Principles and Practices	-	IGI Global	978-93-6735-850-3	-	2025

11.ANY New Innovations/Any Other: NIL

R&D COORDINATOR

HOD

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Michael Faraday Journal Club

Department of Electrical and Electronics Engineering

Annual Report(Academic Year 2024–2025)

The Michael Faraday Journal Club proactively organized a number of activities focused on research. The club served as a vibrant forum for promoting students and research scholar projects, industry person interaction, mitigation of industry problems and fostering scientific curiosity in line with national priorities for innovation and education.

1. Organizing Committee:

S.No.	Name	Role
1	Dr. M. Murugan, Head/ R & D	Convener
2	Dr. K. Thenmalar. HoD/EEE	Co-convener
3	Dr. P. Kannan, Prof./EEE	Faculty Coordinator
4	Ms. B. Gowshika, Research Scholar	Member
5	Ms. S. Shobana, Research Scholar	Member
6	Ms. S. Nandhini, IV EEE	Member
7	Ms. M. Harshavardhini, IV EEE	Member
8	Ms. N. Harini, III EEE	Member
9	Ms. R. Savitha, III EEE	Member
10	Ms. C. Aswini, III EEE	Member
11	Ms. G. Sasmitha, III EEE	Member

2. Objectives of the Club

- **Foster a research-oriented mindset:** Encourage EEE students to think critically, identify problems, and explore innovative solutions within their field.
- **Enhance practical research skills:** Provide opportunities to learn and apply various research methodologies, data analysis techniques, and technical writing.



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- **Promote interdisciplinary collaboration:** Facilitate joint research projects with other engineering disciplines or departments.
- **Showcase student research:** Provide platforms (e.g., seminars, conferences, publications) for students to present their research findings.
- **Connect with industry and academia:** Arrange interactions with researchers, professionals, and guest speakers from relevant industries and academic institutions.
- **Support project development:** Offer guidance and resources for students undertaking academic projects, mini-projects or major research endeavors.
- **Encourage intellectual property awareness:** Introduce concepts related to patents, copyrights and ethical considerations in research.
- **Build a strong research community:** Create a supportive environment where students can share ideas, receive feedback, and collaborate on research interests.

3. Club-Level Outcomes (AY 2024–2025)

- Enhanced student involvement in research and innovation.
- Increased number of technical papers, projects and patents.
- Improved problem solving and analytical skills.
- Better collaboration between students, faculty and industry.
- Strong foundation for higher studies and R&D careers.

4. Summary of Events Conducted (AY 2024–2025):

S.No	Title of the Event	Chief Guest / Resource Person	No. of Students Benefited
1	IEEE CS Madras Mega Quiz	Mr. HR Mohan, Chair – Events & Past Chair IEEE	364
2	Webinar on DevSecOps Demystified- Innovating Security from Development to Operations	Mr. Srinath Swaminathan Devops Manager, Banking Domain, Chennai	115
3	Workshop on guidelines for IPR filing	Dr.K.Baskar M.E., Ph.D	115



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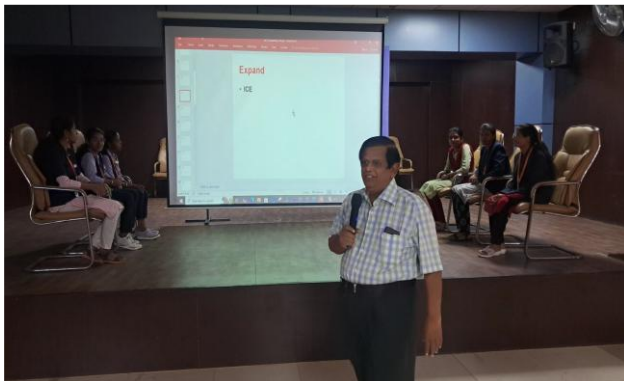
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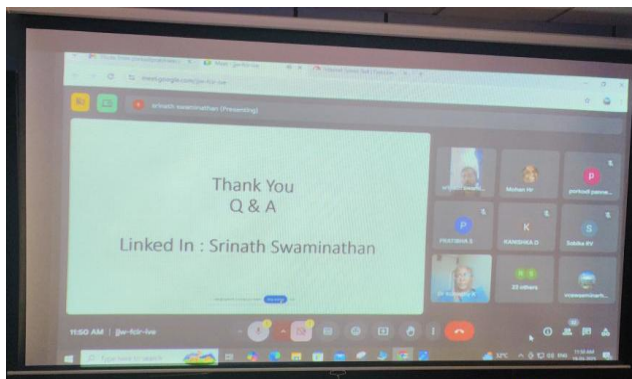


		Associate Professor Department of Biomedical Engineering, Tiruchengode	
4	Hands on Artificial Intelligence using Commercial Controllers	Er. V. Sasikumar Managing Director Mikrosun Technology, Salem	180
5	Workshop on Design and Analysis of Solar powered electric vehicles	Ms. A. Preethi Design Manager CALLSUN Energies, Coimbatore	60
6	Workshop on Energy conservation opportunities in industries and domestic sector	Dr. S. Stalin Assistant professor Anna University- BIT campus Tiruchy	60

Photos



IEEE CS Madras Mega Quiz



Webinar on DevSecOps Demystified- Innovating Security from Development to Operations



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Workshop on guidelines for IPR filing



Hands on Artificial Intelligence using Commercial Controllers



Workshop on Design and Analysis of Solar powered electric vehicles



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Workshop on Energy conservation opportunities in industries and domestic sector

4.1 Student Participation Record

S.No	Name	Year / Dept	Event Title	Type of Event	Date	Level	Organized By	Prize
1	Maneesha M Priyadharshini Bai B Ramasuganthi R Roshini S Sivaranjani J	III/EEE	Quality circle forum of India Chennai Chapter 2k24	Paper presentation	20.07.2024	National	Sathyabama Institutions of Science and Technology, Chennai	Platinum
2	Ashvitha Aarniya S Hema R R Kavipriya M Nandhini D Varneshwari R	III/EEE	Quality circle forum of India Chennai Chapter 2k24	Paper presentation	20.07.2024	National	Sathyabama Institutions of Science and Technology, Chennai	Gold



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5. Faculty Participation in Conference Record

S.No	Name	Department	Title	Type of Event	Date	Level	Organized By
1.	Ms. A.Preethi	EEE	Economic load dispatch of renewable energy using optimization techniques	3rd International conference on advancements in electrical, electronics, communication, computing and automation	04.04.2025 & 05.04.2025	International	Kumaraguru College of Technology, Coimbatore
2.	Dr. A. Pradeep	EEE	Modified Recurrent neural network with firefly optimization for IoT network intrusion detection	International conference on information and communication systems	04.02.2025 & 05.02.2025	International	Vidyavardha ka college of engineering, Mysore



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3.	Dr. A. Pradeep	EEE	Development of OFDM Modem System for Satellite Application using VERILOG	International conference on optimization techniques in the field of engineering	22.10.2024 & 23.10.2024	International	K S R College of engineering, Namakkal
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6. Journal Publications (AY 2024–2025)

S.No	Author(s)	Title of Paper	Journal Name	Indexing Scopus/ Wos / SCI/SCIE/ Others	Date / Month	ISSN NO.
1	Mr.R.Manikandan Dr.K.Thenmalar	Cost-benefit analysis in demand response with penalty and grid management using blockchain	AIP Advances	SCI	Vol:15, Issue:1, January, 2025	015333
2	Dr.P.Kannan	Enhanced cell balancing strategies for electric vehicles using a modified matrix a NFET flyback topology with design and simulation analysis	The International Journal of Advanced Manufacturing Technology	SCI	Vol:15, Issue:1, January, 2025	0268-3768
3	Dr.P.Kannan	Optimal power quality enhancement of photovoltaic and plug-in electric vehicle for smart grid using HBA-GJO technique	Electrical Engineering	SCI	October 2024	0948-7921
4	Dr.K.Thenmalar	Noval Ten port MIMO Antenna with enhanced polarization	Tecnickivje snik/Technical Gazette	SCI	Vol.32/No. 3, 2025	1330-3651



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		diversity for 5G Applications				
5	Mr.J.Shanmugasundaram	UMS-Net++: Modified SwinTransformer for Cardiac MRI Segmentation and Classification	Traitement du Signal	SCI	March, 2025	0765-0019
6	Dr.P.Kannan	Energy management in hybrid renewable microgrids using an optimal deep learning model with attention-based transfer learning mechanism	Waves in Random and Complex Media	SCI	1–30, Feb, 2025	1745-5030

7. Patent Publications (AY 2024–2025)

S. No	Title of Patent	Inventors	Filing Agency	Date Applied	Date of Published	Status
1	AI Powered IOT Solutions for Smart Home Automation with enhanced Security Features	Dr.A.Pradeep	Indian Patent Office	13.06.2024	11.09.2024	Granted
2	Underwater Drone for Detecting Microplastic	Dr.A.Pradeep	Indian Patent Office	14.09.2024	20.09.2024	Granted
3	AI Based Wireless Electricity Consumption Monitoring Device	Dr.K.Thenmalar	Intellectual Property Office, UK.	01.05.2024	09.05.2024	Published



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8. Project Proposal Submission Detail to various Funding Agency (AY 2024–2025)

S. No.	Title of the Project Proposal	Name of Principal Investigator	Co-Investigators	Funding Agency	Date of Submission	Amount Proposed (Rs.)	Status (Submitted/ Under Review/ Approved)
1	Green Energy and E-Mobility for Sustainable Environment	Dr.P.Kannan	Dr.A.Pradeep	AICTE-ATL	12.07.2024	600000	Approved
2	Research Avenues and Challenges of Energy System and EV for Sustainable Development	Dr.J.Murugantham	Mr.S.Mutharasu	AICTE-ATL	14.09.2024	100000	Submitted
3	Next- Gen Grids: Electrifying Innovations for Climate Resilience and Sustainability Energy	Dr.K.Thenmalar	Mr.R.Manikandan	AICTE-ATL	14.09.2024	100000	Submitted
4	Design and Implementation of Solar-Powered Electric Vehicle with Efficient Battery Backup	Dr.J.Murugantham	Dr.K.Thenmalar	TNSCST (Stud.Proj)	25.11.2024	3500000	Submitted
5	Implementation Of Renewable Energy Powered Electric Vehicle with Efficient Battery Backup	Mr.S.Mutharasu	Mrs.S.B.Kalyavizhi	TNSCST (Stud.Proj)	25.11.2024	3520000	Submitted
6	Design and Development of a cost effective electric vehicle	Mr.R.Manikandan	-	TNSCST (Stud.Proj)	25.11.2024	3500000	Submitted



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7	Wireless Energy Harvesting And Power Transfer For Internet Of Things(IOT)	Dr.J.Murugantham	Dr.K.Thenmalar	TNSCS T	23.02.2025	50000	Submitted
8	Integrating Automated Electric Transportation In Smart Towns	Ms.A.Preethi	Ms.D.Santhoshkumar Ms.S.Shobana	TNSCS T	23.02.2025	50000	Submitted
9	Autonomus electric vehicles	Dr.P.Kannan	-	CSIR	21.02.2025	60000	Submitted
10	Awareness Program on Social Impact of Digitalization on Waste Reduction	Dr.A.Pradeep	-	ICSSR	21.02.2025	50000	Submitted
11	Workshop on Popularization of Science and Technology in Sustainable Farming and Smart Agriculture (Using AI & IOT)	Dr.J.Murugantham	Dr.K.Thenmalar	TNSCS T	21.02.2025	40000	Submitted
12	Emerging Issues in Electric Vehicle Charging System	Dr.P.Jeyaprakash,	Dr.K.Thenmalar	DRDO	27.02.2025	30000	Submitted
13	Tamil Proposal	Mr.J.Shanmugasundaram	Mr.T.Sasikumar	AICTE VAANI	21.03.2025	100000	Submitted
14	Sensor to System: Exploring the IoT Journey	Dr.R.Manikandan	-	DRDO	09.05.2025	39.50	Submitted



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9. Book /Book Chapter Publication detail:

S.No	Author (s)	Title of the Book	Book Chapter Title	Publisher	ISBN NO.	Scopus/Wos/Others	Year of Publication & Month
1	P. Maithili, A. Preethi, K.R. Dhinesh	Smart grid security and protection	IoT Based Smart Energy Meter for Billing and Electricity Theft Identification System	Springer	978-981-96-0824-9	Scopus	May 2025

10. ANY New Innovations/Any Other