



I' Storm

K.L.N. College of Engineering, Pottapalayam - 630612
Department of Information Technology

September 2023



K.L.N. College of Engineering

i'Storm

Department of Information Technology



PRINCIPAL MESSAGE



It is a matter of great pride and satisfaction for K.L.N. COLLEGE OF ENGINEERING to bring out the News Letter 'I'STORM' Released from the Department of Information Technology. The College has made tremendous progress in all areas—academic, non-academics, capacity building relevant to staff and students. The College has achieved another milestone in getting NBA (National Board of Accreditation). I am confident that this issue of Department News Letter will send a positive signal to the staff, students and the person who are interested in the Technical education and Technology based activities. A News Letter is like a mirror which reflects the clear picture of all sorts of activities undertaken by a Department and develops writing skills among students in particular and teaching faculty in general. I congratulate the Editorial Board of this News Letter who have played wonderful role in accomplishing the task in Record time. I express my deep sense of gratitude to Dr. P.Ganesh Kumar, HOD/IT under whose guidance this Technical work has been undertaken and completed within the stipulated time. Also my heartfelt Congratulations to staff members and Students for their fruitful effort. With Best wishes.

PRINCIPAL

Dr. A.V. RAMPRASAD

THE EDITOR'S DESK



It gives me immense pleasure to note that response to this newsletter of our department i'STORM has been overwhelming. The wide-spectrum of articles in different sections gives me a sense of pride that our students and professors possess creative potential and original thinking in ample measures. Each article is entertaining, interesting and absorbing. I applaud the contributors for their stimulated thoughts and varied hues in articles contributed by them. Commendable job has also been done by the Editorial Board in planning for and producing the Newsletter. My congratulations to the team who took the responsibility for the arduous task most effectively. I am hopeful that this small piece of technical work shall not only develop the taste for reading among students but also develop a sense belonging to the institution as well.

H.O.D(IT)

Dr. P. GANESH KUMAR

NEWS LETTER EDITORIAL BOARD EDITOR-IN-CHIEF:

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M.S.R.Swetha(3rd Year)

OUR COLLEGE:

Vision

To become a Centre of Excellence in Technical Education and Research in producing Competent and Ethical professionals to the society.

Mission

To impart Value and Need based curriculum to the students with enriched skill development in the field of Engineering, Technology, Management and Entrepreneurship and to nurture their character with social concern and to pursue their career in the areas of Research and Industry.

OUR DEPARTMENT:

Vision

To emerge as a center of excellence through innovative technical education and research in Information Technology.

Mission

To produce competent Information Technology professionals to face the industrial and societal challenges by imparting quality education with ethical values.

K.L.N.COLLEGE OF ENGINEERING

POTTAPALAYAM, SIVAGANGA DISTRICT, TAMILNADU

AN AUTONOMOUS INSTITUTION | ACCREDITED BY NAAC

(APPROVED BY AICTE, NEW DELHI & AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

DEPARTMENT OF INFORMATION TECHNOLOGY

PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

1. *Engineering knowledge*: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. *Problem analysis*: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development.
3. *Design/development of solutions*: Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required.
4. *Conduct investigations of complex problems*: Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modeling, analysis & interpretation of data to provide valid conclusions.
5. *Engineering tool usage*: Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems.
6. *The engineer and the world*: Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment.
7. *Ethics*: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws.
8. *Individual and Collaborative team work*: Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.
9. *Communication*: Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences.
10. *Project management and finance*: Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.
11. *Life-long learning*: Recognize the need for, and have the preparation and ability for
 - i) independent and life-long learning
 - ii) adaptability to new and emerging technologies and
 - iii) critical thinking in the broadest context of technological change.

Program Educational Objectives

1. *To excel in industrial or graduate work in Information Technology and multi-disciplinary Environments.*
2. *To adapt to ever changing technologies by applying Engineering Principles.*
3. *To practice professionalism conforming to ethical values, team work and Leadership.*

Program Specific Outcomes

1. *To create better learning environment in line with technological updation and research progress.*
2. *To give industry exposure through research and consultancy in Information and Communication Technologies.*

CYBERSECURITY

Cybersecurity is the practice of protecting computer systems, networks, and data from unauthorized access, cyber threats, and attacks, encompassing measures like firewalls, encryption, and strong passwords to ensure the safety of personal, business, and government information.

key areas of Cybersecurity:

Network

Security: Protecting the infrastructure that connects devices and systems.

Application

Security: Securing software and applications from vulnerabilities and attacks.

Information

Security: Protecting data and information assets from unauthorized access or disclosure.

•Cloud

Security: Protecting data and applications stored in the cloud.

•End-user

Education: Training users to recognize and avoid cyber threats.

Disaster Recovery and Business Continuity

Planning: Ensuring that organizations can recover from cyberattacks and continue operations.



Whitfield Diffie and Martin Hellman



Whitfield Diffie and Martin Hellman are pioneers in cybersecurity and cryptography. They introduced the Diffie-Hellman key exchange in 1976, which allowed two parties to securely exchange cryptographic keys over an insecure channel.

Key Contributions:

- Diffie-Hellman Key Exchange – A method for securely exchanging cryptographic keys without needing a pre-shared secret.
- Public-Key Cryptography – Their work laid the foundation for modern encryption techniques like RSA and ECC.

Ron Rivest, Adi Shamir, and Leonard Adleman



who are the inventors of the RSA (Rivest-Shamir-Adleman) algorithm in 1977.

Key Contributions:

- RSA Algorithm – One of the first and most widely used public-key encryption systems. It is based on the difficulty of factoring large prime numbers.
- Public-Key Cryptography – Their work helped secure online communications, including SSL/TLS, digital signatures, and secure emails.

Claude Shannon



Claude Shannon is known as the father of information theory. His key contributions to cybersecurity and communications include:

1. Information Theory (1948) – Defined how data can be efficiently transmitted and compressed.

2. Shannon's Entropy – Measures uncertainty in a system, crucial for cryptography.

3. Modern Cryptography – His work laid the groundwork for secure communication and encryption methods.

Bruce Schneier



Bruce Schneier is a renowned cybersecurity expert, cryptographer, and author known for his contributions to cryptography, network security, and cybersecurity policy.

1. *Cryptography & Security Tools – Developed Blowfish and Twofish encryption algorithms.*

2. *Cybersecurity Books – Wrote Applied Cryptography, Secrets & Lies, and Beyond Fear, which are widely used in the security field.*

Kevin Mitnick



Kevin Mitnick was a legendary hacker and cybersecurity expert.

1.Famous Hacker – Once the most wanted hacker in the U.S. for cybercrimes in the 1990s.

2.Social Engineering – Master of tricking people to gain system access.

3.Security Consultant – After serving prison time, he became a cybersecurity expert and helped companies improve security.

4.Author – Wrote books like The Art of Deception and The Art of Intrusion on hacking and security awareness.

John McAfee



John McAfee was a pioneer in cybersecurity, best known for founding McAfee Antivirus, one of the first commercial antivirus software programs.

1.McAfee Antivirus (1987) – One of the earliest and most popular antivirus programs, helping protect computers from malware.

2.Cybersecurity Awareness – Advocated for digital privacy and security.

3.Entrepreneurship – Founded McAfee Associates, later becoming a major cybersecurity company.

Key Features Of Cyber Security

Cybersecurity protects systems, networks, and data from threats. It includes network security, data encryption, and IAM for access control. Firewalls, intrusion detection, and endpoint security prevent attacks, while threat intelligence and incident response help detect and mitigate risks. Cloud security and phishing protection safeguard online data, and compliance management ensures adherence to regulations. These measures strengthen defense against cyber threats.



1. Prevention from External Threats

External cyber threats aim to compromise data and disrupt operations. Key preventive measures include:

- **Firewalls:** Block malicious traffic between internal and external networks.
- **IDPS:** Monitor and prevent suspicious activities.
- **Antivirus & Anti-malware:** Detect and remove harmful programs.
- **Zero Trust Model:** Verifies all access requests to prevent unauthorized entry.

2. Cloud-Based Security Services

Cloud security protects sensitive data from cyber threats. Key measures include:

- **Cloud Encryption:** Secures data by converting it into unreadable formats.
 - **IAM:** Restricts unauthorized access to cloud resources.
 - **Secure APIs:** Prevents exploitation of application interfaces.
 - **CSPM:** Detects cloud misconfigurations and vulnerabilities.
 - **Backup & Recovery:** Automates backups to prevent data loss.
- These measures reduce risks like data leaks, unauthorized access, and account hijacking.

3. Regulatory Compliance in Cybersecurity

Regulatory compliance ensures organizations follow legal and industry security standards to protect user data. Key frameworks include:

- **GDPR:** Protects EU citizens' personal data.
- **HIPAA:** Secures healthcare information.
- **ISO/IEC 27001:** Sets global ISMS standards.
- **NIST Framework:** Provides security controls for organizations.
- **PCI DSS:** Secures credit card transactions.

Compliance helps avoid legal penalties, build customer trust, and strengthen cybersecurity.

4.Consolidated Security Solutions

A unified cybersecurity approach integrates multiple tools for better threat prevention and management. Key

components include:

- UTM: Combines firewall, antivirus, and intrusion prevention.
- XDR: Unifies threat detection across endpoints, networks, and cloud.
- SIEM: Analyzes security events to detect threats.
- EPP: Protects devices from malware and unauthorized access.
- Automated SOC: Uses AI for real-time threat response.

This approach enhances efficiency, reduces costs, and ensures seamless security coordination.

5.Fortification from Internal Threats

Internal threats from employees or partners can be as dangerous as external attacks. Key preventive measures include:

- RBAC: Restricts data access based on roles.
- MFA: Requires multiple verifications for access.
- UBA: Detects unusual user activity.
- DLP: Prevents data leaks and theft.
- Awareness Training: Educates employees on cybersecurity risks.

These measures help protect data integrity, prevent breaches, and strengthen security.

Benefits Of Cyber Security

1. Financial Protection – Reduces the risk of financial losses due to cybercrime or fraud.

2. Safeguards National Security – Protects government systems and critical infrastructure from cyber threats.

KEY BENEFITS OF CYBER SECURITY AUTOMATION



3. Protects Data & Privacy – Prevents unauthorized access to sensitive personal and business information.

4. Prevents Cyber Attacks – Defends against malware, phishing, ransomware, and hacking attempts.

5. Ensures Business Continuity – Keeps systems running smoothly by preventing cyber threats and downtime.

6. Builds Trust – Enhances customer confidence by ensuring secure transactions and data protection.

7. Regulatory Compliance – Helps businesses meet legal and industry security standards (e.g., GDPR, HIPAA).

Disadvantages Of Cyber Security



1.High Cost – Advanced security systems and software can be expensive.

2.Complex Implementation – Requires skilled professionals to set up and maintain.

3.Slower System Performance – Security tools like firewalls and encryption can slow down operations.

4.Regular Updates Needed – Constant updates are required to stay ahead of new threats.

5.False Positives & Restrictions – Security measures may block legitimate activities.

6.User Inconvenience – Multi-factor authentication and strict policies can be time-consuming.

7.No 100% Guarantee – Even strong security systems can be breached by advanced attacks.

Despite these challenges, cybersecurity is essential to protect data, privacy, and digital systems.

What is the importance of cyber security in 2023?



Cybersecurity is essential for protecting digital systems, sensitive data, and online activities from cyber threats. Its significance includes:

Data Protection: Prevents unauthorized access, breaches, and data theft.

Privacy Preservation: Safeguards personal and organizational information.

Business Continuity: Ensures uninterrupted operations by preventing cyberattacks.

Financial Security: Reduces the risk of financial loss from fraud and ransomware.

Trust and Compliance: Builds customer confidence and ensures regulatory compliance.



- ❑ **Malware:** Viruses, worms, and ransomware that infect systems.
- ❑ **Phishing:** Deceptive emails or messages to steal sensitive information.
- ❑ **Denial-of-Service (DoS) & DDoS:** Overloading a system to make it unavailable.
- ❑ **Man-in-the-Middle (MitM):** Intercepting communication between users.



- ❑ **Financial Gain:** Stealing money, credit card details, or demanding ransom (e.g., ransomware attacks).
- ❑ **Data Theft:** Gaining unauthorized access to sensitive personal, corporate, or government data.
- ❑ **Disruption:** Crippling systems, websites, or services through attacks like DDoS.

Applications of Cybersecurity

1. Network Security – Protects networks from cyber threats like malware and hacking.

2. Cloud Security – Secures data stored in cloud platforms (e.g., Google Drive, AWS).

3. Endpoint Security – Protects individual devices like computers and mobile phones.

4. Application Security – Secures software and web apps from vulnerabilities.



5. Data Security – Prevents unauthorized access to sensitive information.

6. IoT Security – Protects smart devices (e.g., smart homes, industrial IoT).

7. Cybersecurity in Banking – Ensures secure online transactions and prevents fraud.

8. Government & Military Security – Protects national infrastructure from cyberattacks.

9. Healthcare Security – Secures patient records and medical devices.

10. E-commerce Security – Protects online stores from fraud and data breaches.

List of Faculties attended in FDP / STTP / Refresher/Induction Programs

Sl. No	Name of the Faculty	FDP/Conference/Workshops/Short-Term Programs / Industrial Training Programs	Organized By	Date
1.	Mr M.SATHEESH KUMAR, ASP/IT	Two days Faculty Development Program on "Applications of Generative AI"	GUVI, Naan Mudhalvan and Anna University	01.12.2023 & 02.12.2023
2.	Mr A.SELVARAJ, AP(Sr.Gr)/IT	Five Days Online Faculty Development Program on "Ethical Hacking Tools and Techniques"	Kamaraj College of Engineering and Technology	28.08.2023 to 01.09.2023
3.	Mrs.S.VIJAYA SHARMILA, AP/IT	One-Week Online Faculty Development Program on "AI: The Omnipresent Sapient"	Kalasalingam Academy of Research and Education	24.06.2024 to 28.06.2024
		Six Day Online Faculty Development Program on "Quality Concepts and Research Issues in Engineering Applications"	SRM Madurai College for Engineering and Technology	11.12.2023 to 16.12.2023
		One Week Online Faculty Development Programme on "Outcome based Education"	Velammal College of Engineering and Technology	04.12.2023 to 08.12.2023

4.	Mrs.S.JENIBA, AP/IT	Faculty Development Program on "Entrepreneurship Development for Faculty in Energy Conservation Domains of Engineering and Technology using Mobile Application Development"	Anna University, Chennai	26.10.2023 to 08.11.2023
		Five Days Faculty Development Program on "Embedded Systems and IoT"	Jayaraj Annapackiam CSI College of Engineering	10.07.2023 to 14.07.2023
		Five Days Online Faculty Development Program on "Ethical Hacking Tools and Techniques"	Kamaraj College of Engineering and Technology	28.08.2023 to 01.09.2023
5	Mrs.T.T.MATHA NGL, AP/IT	Five Days Online Faculty Development Program on "Ethical Hacking Tools and Techniques"	Kamaraj College of Engineering and Technology	28.08.2023 to 01.09.2023
		Five Days Faculty Development Program on "Embedded Systems and IoT"	Jayaraj Annapackiam CSI College of Engineering	10.07.2023 to 14.07.2023
6.	Mrs.N.LOGAMIT HRA, AP/IT	Five Days Online Faculty Development Program on "Ethical Hacking Tools and Techniques"	Kamaraj College of Engineering and Technology	28.08.2023 to 01.09.2023

7.	Mrs P.RAMYA, AP/IT	Online One Week Faculty Development Programme on "Electric Vehicle Technology"	Velammal College of Engineering and Technology	09.10.2023 to 13.10.2023
		Five Days Online Faculty Development Program on "Ethical Hacking Tools and Techniques"	Kamaraj College of Engineering and Technology	28.08.2023 to 01.09.2023
		Faculty Development Program on "Entrepreneurship Development for Faculty in Energy Conservation Domains of Engineering and Technology using Mobile Application Development"	Anna University, Chennai	26.10.2023 to 08.11.2023
8.	Mrs N.VISHNU DEVI, AP/IT	One Week Online Faculty Development Programme on "Outcome based Education"	Velammal College of Engineering and Technology	04.12.2023 to 08.12.2023
		Five Days Faculty Development Program on "Embedded Systems and IoT"	Jayaraj Annapackiam CSI College of Engineering	10.07.2023 to 14.07.2023
		Five Days Online Faculty Development Program on "Ethical Hacking Tools and Techniques"	Kamaraj College of Engineering and Technology	28.08.2023 to 01.09.2023

9.	Mr. P.L.SUBRAMANI AN, AP/IT	Faculty Refresher Program on Technology Based Teaching & Learning	A2Z EduLearning Hub LLP	22.12.2023
		Five Days Faculty Development Programme on "Cyber Security: Analytics, Use Cases and Demo"	Vellore Institute of Technology, Chennai	12.02.2024 to 16.02.2024
10.	Mrs IMUTHU MEENATCHI, AP/ IT	Five Days Online Faculty Development Program on "Ethical Hacking Tools and Techniques"	Kamaraj College of Engineering and Technology	28.08.2023 to 01.09.2023
		Faculty Development Program on "Big Data Computing"	NPTEL - AICTE	Aug to Oct 2023
11.	Mrs K RANI, AP/IT	Six Day Online Faculty Development Program on "Quality Concepts and Research Issues in Engineering Applications"	SRM Madurai College for Engineering and Technology	11.12.2023 to 16.12.2023
		Five Days Online Faculty Development Program on "Ethical Hacking Tools and Techniques"	Kamaraj College of Engineering and Technology	28.08.2023 to 01.09.2023

12.	Mrs.A.THIRUNIR AI SELVI, AP/IT	Five Days Online Faculty Development Program on "Ethical Hacking Tools and Techniques"	Kamraj College of Engineering and Technology	28.08.2023 to 01.09.2023
13.	Mrs.T.S.NAGA NANTHINI, AP/IT	Faculty Development Program on "Cloud Computing"	NPTEL - AICTE	Jan to Apr 2024

List of Faculties attended in Workshop /Seminars/ Other Programs

Sl. No	Name of the Faculty	Workshops/Seminars/other Programs	Organized By	Date
1.	Mrs.S.VIJAYA SHARMILA, AP/IT	Five Days Workshop on Deep-Learning Approaches for Inverse Problems in Imaging(Online)	National Institute of Technology, Goa	20.11.2023 to 24.11.2023
2.	Mrs.S.JENIBA, AP/IT	Webinar on "FRAMING QUESTIONS IN LINE WITH BLOOM'S TAXONOMY"	SRM Madurai College for Engineering and Technology	14.07.2023
		Webinar on "CRM and CLOUD"	SRM Madurai College for Engineering and Technology	11.07.2023

3.	Mrs.T.T.MATHANGI, AP/IT	Five Days Workshop on Deep-Learning Approaches for Inverse Problems in Imaging(Online)	National Institute of Technology, Goa	20.11.2023 to 24.11.2023
4.	Mrs.N.LOGAMITHRA, AP/IT	Participated in an IEEE Training on "IEEE Xplore"	K.L.N College of Engineering	28.07.2023
		Five Days Workshop on Deep-Learning Approaches for Inverse Problems in Imaging(Online)	National Institute of Technology, Goa	20.11.2023 to 24.11.2023
5.	Mrs.P.RAMYA, AP/IT	Five Days Workshop on Deep-Learning Approaches for Inverse Problems in Imaging(Online)	National Institute of Technology, Goa	20.11.2023 to 24.11.2023
6.	Mrs.N.VISHNU DEVI, AP/IT	Five Days Workshop on Deep-Learning Approaches for Inverse Problems in Imaging(Online)	National Institute of Technology, Goa	20.11.2023 to 24.11.2023
7.	Mr. P.L.SUBRAMANIAN, AP/IT	Completed the "Certificate Course on Python for Data Analysis"	A2Z EduLearning Hub LLP	13.02.2024 to 15.02.2024
		Participated in the online session on "AI-Powered Academic Writing: Exploring Opportunities for Researchers and Educators"	A2Z EduLearning Hub LLP	10.08.2023

8.	Mrs I NUTHU MEENATCHI,AP/IT	Five Days Workshop on Deep- Learning Approaches for Inverse Problems in Imaging(Online)	National Institute of Technology, Goa	20.11.2023 to 24.11.2023
9.	Mrs K RANI, AP/IT	Participated in the "REACT JS" Workshop	Reccsar Private Limited	17.03.2024
10.	Mrs A. THIRUNIRAI SELVI, AP/IT	Five Days Workshop on Deep- Learning Approaches for Inverse Problems in Imaging(Online)	National Institute of Technology, Goa	20.11.2023 to 24.11.2023



No of short-term courses / Seminars / Symposia attended by Staff

SIN o	Name of the Faculty	FDP/Conference/ Workshops/Shor t-Term Programs / Industrial Training Programs	Organized By	Date
1.	Mr.A.SELVA RAJ, AP(Sr.Gr)/IT	Generative AI and the Future of Work	Reva University, Bengaluru, India,	22.7. 2024 to 26.7. 2024

2.	Mr.A.SELVA RAJ, AP(Sr.Gr)/IT	Online National level 5 days FDP, “ Mastering the art of Research: Idea to Research”	School of Computer Science and Artificail Intelligenc e, SR University	13.11 .24 to 17.11 .24
3.	Mr.A.SELVA RAJ, AP(Sr.Gr)/IT	Cloud Computing	NPTEL - IIT Kharagpur	Jul to Oct 2024
4.	Mrs.S.VIJAY A SHARMILA, AP/IT	Generative AI and the Future of Work	Reva University, Bengaluru, India,	22.7. 2024 to 26.7. 2024
5.	Mrs.S.VIJAY A SHARMILA, AP/IT	Advancements in Computing Technologies and Internet of things	School of Computer Science and Engineerin	21.10 .24 to 25.10 .24

17	Mr.P.L.SUBRAMANIAN, AP/IT	Five-Day Short Term Course on “Fundamentals of Data Science & Machine Learning with AI &”	Adi Shankara Institute of Engineering and Technology, Kalady,	16.12.24 To 20.12.24
18	Mr.P.L.SUBRAMANIAN, AP/IT	Participation certificate Generative AI Applications Challenges and Future Trends	K.L.N College Of Engineering,Sivaganga	18.08.25 To 22.08.25
19	Mrs.I.MUTHUMEENATHI, AP/IT	Introduction to Internet of Things	NPTEL - IIT Kharagpur	Jul to Oct 2024
20	Mrs.I.MUTHUMEENATHI, AP/IT	FDP on “Introduction to Internet of Things”	NPTEL - IIT Kharagpur	Jul to Oct 2024

21	Mrs.I.MUTH UMEENATC HI, AP/IT	Latest Research Trends and Methodologies in AI and ML	School of Advanced Sciences and the Faculty Developm ent Centre, VIT Chennai.	28.10 .24 to 02.11 .24
22	Mrs.I.MUTH UMEENATC HI	Six days Faculty Development Program on "Integrating Innovation Exploring Emerging Technologies"	Kamaraj College of Engineerin g & Technolog y	06.01 .2025 to 11.01 .2025
23	Mrs.I.MUTH UMEENATC HI	Five-days Faculty Development Program on "Innovative Techniques for Crafting and Publishing Research Papers"	Vellamal Institute of Technolog y	10.02 .2025 to 14.02 .2025

24	Mrs.I.MUTH UMEENATC HI	AICTE Training & Learning (ATAL) Academy Faculty Development Program on Deep Learning & Computer Vision in the Field of Clinical Research"	Thiagrajar College of College	17.02 .2025 to 22.02 .2025
25	Mrs.I.MUTH UMEENATC HI	Faculty Development Program on "Affective Computing"	NPTEL- AICTE	Jan- Apr 2025
26	Mrs.I.MUTH UMEENATC HI	Faculty Development Program on "Next-Gen Cybersecurity with AI:Techniques and Trends"	Aarupadai Veedu Institute of Technolog y	26th to 30th May 2025
27	Mrs.I.MUTH UMEENATC HI	Faculty Development Program on "Affective Computing"	NPTEL- AICTE	Jan- Apr 2025

28	Mrs.K.RANI, AP/IT	Introduction to Internet of Things	NPTEL - IIT Kharagpur	Jul to Oct 2024
29	Mrs.K.RANI, AP/IT	FDP on “Introduction to Internet of Things”	NPTEL - IIT Kharagpur	Jul to Oct 2024
30	Mrs.K.RANI, AP/IT	AICTE Training And Learning (ATAL) Academy Faculty Development Program on Deep Learning and Computer Vision in the Field of Clinical Research	Thiagarajar College Of Engineerin g	17.02 .2025 to 22.02 .2025
31	Mrs.A.THIRU NIRAI SELVI, AP/IT	Introduction to Internet of Things	NPTEL - IIT Kharagpur	Jul to Oct 2024

STUDENTS PARTICIPATION



S.N.	Name of the Student	Name of the Event	State/ National/ International Level	Date of Event	Name of the Award If any
1.	J.Aadhithya	The 28 Hrs National Level Hackathon, Sri Sairam Institute Of Technology, Chennai	National	13.03.2023 To 14.03.2023	Certificate of Achievement
2.	J.Aadhithya V. Deepak V. Deepan V.G. Karthikeyan K.L.N College Of Engineering	Hackathon 1.0 , Auroitech Digital Foundation, Madurai	State	20.1.2024	1 st Prize
3.	V.K.Poornimaas Shri	The Joy Of Computing Using Python, NPTEL Online Certification	State	11.01.2023	Elite-NPTEL online certification
4.	V. Deepak	Vinsup Techno Tournament, Vinsup Infotech (P) Ltd	State	01.07.2023	3 rd Prize
5.	V. Deepan	Vinsup Techno Tournament, Vinsup Infotech(P)Ltd	State	01.07.2023	3 rd Prize
6.	J. Aadhithya	Vinsup Techno Tournament, Vinsup Infotech(P)Ltd	State	01.07.2023	3 rd Prize
7.	V.G. Karthikeyan	Vinsup Techno Tournament, Vinsup Infotech(P)Ltd	State	01.07.2023	3 rd Prize
8.	M.Nithesh	Techutsav-Innohacks'24, Thiagarajar College Of Engineering	State	13.03.2024	2 nd – Pitch Perfect
9.	K.Vimal Adithan	Techutsav-Innohacks'24, Thiagarajar College Of Engineering	State	13.03.2024	2 nd – Pitch Perfect

11.	T.J.Nithya Dharshini	Techutsav- Innohacks'24, Thiagarajar College Of Engineering	State	13.03.2024	2 nd – Play With Db & Sql
12.	T.K.S. Vinusha	Techutsav- Innohacks'24, Thiagarajar College Of Engineering	State	13.03.2024	2 nd – Play With Db & Sql
13.	Rs. Shobana Dharshini	Matlab Onramp Mathworks Training Services	State	28.11.2023	Participated
14.	E.I. Gowshik	Internship Program Brahmastra Aerospace & Defence Pvt	State	1.2.2024 To 21.2.24 21 Days	Certificate/lor
15.	N.C. Nithish Kumar	Internship Infinity Uniquers Consulting & Service	State	31.03.2024	Participated
16.	K. Vishnu	Internship Infinity Uniquers Consulting & Service	State	31.03.2024	Participated
17.	K. Vishnu	Project Contest 2024 National Level Project Contest'24, Vcet	National	26.3.2024	Participated
18.	T.S. Rindhia Sree	Training Basics Of Html/Css For Beginners, Openweaver	State	26.4.2024	Participated
19.	K.S. Achuthen	Innofesta'24 Fourth National Level Project Contest Innofesta'24,-Vcet	National	28.3.2024	Interactive gesture based gaming using cv, participated

21.	K.S. Achuthen	Repit Computing, Kalasalingam Academy Of Research And Education	State	26.3.2024& 27.3.2024	Participated
22.	R.G. Yogheswaran	Wonders Of Ai Computing, Kalasalingam Academy Of Research And Education	State	26.3.2024& 27.3.2024	Participated
23.	R.G. Yogheswaran	Repit Computing, Kalasalingam Academy Of Research And Education	State	26.3.2024& 27.3.2024	Participated
24.	K. Vimal Adithan	Tech Meraki 2023 Pena College Of Engineering & Technology	State	21.2.2023	Paper presentation, participated
25.	K. Vishnu	Internship Infinity Uniquers Consulting & Service	State	2 Months, 20.9.2023 To 20.11.23	lot based, participated
26.	N.C. Nithish Kumar	Internship Infinity Uniquers Consulting & Service	State	2 Months, 20.9.2023 To 20.11.23	lot based, participated

29.	V. Ruban Kumar	Zonal Tournaments 2022-23 Anna University Sports Board, Chennai	State	2.2.2023 To 6-2-2023	1 st Prize, Cricket
30.	T.M. Roshni	Techutsav- Innohacks'24 Thiagarajar College Of Engineering	State	13.3.2024	Participated
31.	K.R. Ramya Devi	Techutsav- Innohacks'24 Thiagarajar College Of Engineering	State	13.3.2024	Participated
32.	Poorna Sri	Tech Fusion- Workshop Thiagarajar College Of Engineering	State	13.9.2024	Participated
33.	A.S. Nandhini	Techutsav- Innohacks'24 Thiagarajar College Of Engineering	State	13.3.2024	Participated
34.	K.N. Jai Shree	Python Zero To Hero Guvi, Google For Education Partner	International	19.5.2024	Completion
35.	K.N. Jai Shree	Sql(Intermediate) Hackerrank Skill	International	18.5.2024	Accomplishment
36.	K.N. Jai Shree	Sql(Basic) Hackerrank Skill	International	16.5.2024	Accomplishment
37.	K. Vimal Adithan	Igniting Minds A Business Talkshow Igniting Minds A Business Talkshow	State	14.9.2023	Participated

Students publication

S.No	Name of the Student & Semester	Name of the Publisher	Name of the Journal/ Conference, etc.	Volume No. & Issue No.	Name of the Award if any
1	Akash G V Jeevanlal R P Abishek R	Dynamic unity VR for Architectural Excellence	International Research Journal of Modernization in Engineering Technology and Science. Volume 06/ Issue 04/ April 2024/ 60400153945	ISSN:2582-5208	-
2	Rajeswar S S Santhosh S Saravana Kumar V	Deepfake Detection using LSTM for Cybersecurity	International Research Journal of Modernization in Engineering Technology and Science. Volume 06/ Issue 04/ April 2024/ 60400138986	ISSN:2582-5208	-
3	Arunpandi R Balaji A S Manikandan R Mohanraj P	Gesture and Voice Recognition for Enhanced computer control	International Research Journal of Modernization in Engineering Technology and Science. Volume 06/ Issue 04/ April 2024/	ISSN:2582-5208	-
4	Siva S Sivabalan S Srinivasan B	Lung Cancer Prediction using inception V3 based CNN on Histopathologica l image	International Research Journal of Modernization in Engineering Technology and Science. Volume 06/ Issue 04/ April 2024/ 60400138233	ISSN:2582-5208	-
5	Amritha S S Harini S Muthu Sindhiya M	A Novel data mining algorithm for the detection of parkinson's disease	International Research Journal of Modernization in Engineering Technology and Science. Volume 06/ Issue 04/ April 2024/	ISSN:2582-5208	-
6	Akashkannan R S Gokul M Krishna Raj A	Air pollution Monitoring System using IoT	International Research Journal of Modernization in Engineering Technology and Science. Volume 06/ Issue 04/ April 2024/ 60400293874	ISSN:2582-5208	-

11	Aadhithya J Deepan V Deepak V Karthikeyan V G	Transformative Virtual Training for Industrial excellence in Automobile Industry	International Research Journal of Modernization in Engineering Technology and Science. Volume 06/ Issue 04/ April 2024/ 60400326225	ISSN:2582-5208	-
12	Neelaram J S	Multifaceted disease Prognosis using Machine Learning Techniques	International Research Journal of Modernization in Engineering Technology and Science. Volume 06/ Issue 04/ April 2024/ 60400108418	ISSN:2582-5208	-
13	Abigail Kezia R Harini V Madhunisha K	Nutrition Analyzer and Dietary choice recommendation using deep learning	International Research Journal of Modernization in Engineering Technology and Science. Volume 06/ Issue 04/ April 2024/ 60400165388	ISSN:2582-5208	-
14	Pavithra D Pooja A V R Revathy A	Predictive Maintenance for Industrial equipment using Random Forest Regressor	International Journal for Scientific Research & Development. Volume 9, Issue 4, April 2024	ISSN: 2455-2631	-
15	Niveetha K G Subasri M Supraja R B	Sendkrypt: An application for secure ethereum transaction	International Journal for Scientific Research & Development. Volume 9, Issue 5, May 2024	ISSN: 2455-2631	-
16	Ram Karthick S G Santhosh N Senthil Kumar S S	URL based Phishing website detection using integrated machine learning algorithms	International Research Journal of Modernization in Engineering Technology and Science. Volume 06/ Issue 04/ April 2024/ 60400209046	ISSN:2582-5208	-
17	Sandhiya Devi T B Swetha R Reena Roselin J	Fake news Detection using Logistics algorithm	International Journal for Scientific Research & Development. Volume 9, Issue 4, April 2024	ISSN: 2455-2631	-

Events Organized in Association with IIC (2023-2024)

S.NO	Name of the Event	National/ International level	Date of Event	No of Participants
1	Name:- Smart India Hackathon-2023 Type:- IIC Calendar Activity	Institute	21.09.2023 22.09.2023 & 23.09.2023	10 (2022- 2026) 10 (2021- 2025)
2	VIKSIT BHRAT@2047 Type:- MIC Driven Activity Resource person: Hon'ble Prime Minister, Government of India	National	11.12.2023	10 (2022- 2026)
3	Field Visit to Hi-Tech Arai (P) Ltd Poovanthi, Sivagangai (Dt) Type:- IIC Calendar Activity	State	28.12.2023	10 (2022- 2026)
4	Successful Entrepreneur & Start up Type:- IIC Calendar Activity Resource Person: Mr. Hari Prasath, Founder & CEO, Tanvi Technologies, Madurai	Institute	28.2.2024	25 (2022- 2026)
5	Motivational Session by Successful Innovator Type:- IIC Calendar Activity Resource Person: Mr. J. Gautam, Head, V7 Lancer Products & Services, Madurai	Institute	29.2.2024	25 (2022- 2026)

List of Activities Organized by IPC(2023– 2024)

S.NO	Name of the Event	National/ International level	Date of Event	No of Participant
1	Hands on Workshop on “Web Networking and API Development”	Institute	27.02.24	10 (2021-2025)
2	EDII Hackathon 2024-Idea Submission-awareness Program	Institute	22.03.24	4 (2022-2026)
3	One Day Hands-on Workshop on “Cyber Security and HACKQUEST”	Institute	18.04.24	2 (2021-2025)

List of Activities Organized by IIPC(2023– 2024)

S.NO	Name of the Event	National / International level	Date of Event	No of Participant
1	PHP workshop Mr.S.K.Sanjay Raj Full Stack Developer & Trainer Reccsar Pvt Ltd	Institute	28.02.2024 to 01.03. 2024	84 (2022-2026)
2	Hands on Training Python Libraries Numpy,Pandas & Matplotlib Anandha Murugan Rajamari Co founder & CTO at HRBluSky & MTeamZ	Institute	14.10.2024	33 (2021-2025)

Events Organized in Association with ISTE(2023–2024)

S.N O	Name of the Event	National/ Internation al level	Date of Event	No of Participant
1	Hands on workshop on power BI and Tableau : Grow your knowledge Trainer Vishnu Priyan.R Delivery Manager Syasan's	Institute	15.04.2024 to 18.04.2024	84 (2022- 2026)
2	Placement And Training Program Aptitude Test Mr.N.GuruRajan (Academic Content Developer cum Trainer) Organized by Department of Information Technology	Institute	23.03. 2024, 25.03. 2024 to 27.03.2024	90 (2022- 2026)
3	National technology day celebration, Mr.Hari Prasath, Founder & CEO, Thanvi Technologies. Mr.S.K.Sanjay Raj, Full Stack Developer & Trainer, Reccsar Pvt.Ltd.,	State	30.04. 2024	268 (Inter college participant)
4	Seminar on Artificial Intelligence Mrs.TD.Rajeeve	Institute	30.11.2023	84 (2022-