



# INFOTECH SPARK



NEWSLETTER | JUL - DEC |  
2024 VOLUME 1 | ISSUE 1



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## DEPARTMENT OF INFORMATION TECHNOLOGY

### INFOTECH SPARK

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## DEPARTMENT OF INFORMATION TECHNOLOGY

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### VISION OF THE INSTITUTION

TO MAKE THE INSTITUTION THE UNIQUE OF ITS KIND IN  
THE FIELD OF RESEARCH AND DEVELOPMENT ACTIVITIES  
IN THE PART OF THE WORLD

### MISSION OF THE INSTITUTION

TO IMPART HIGHLY INNOVATIVE AND TECHNICAL  
KNOWLEDGE TO THE URBAN AND UNREACHABLE RURAL  
STUDENT FOLKS THROUGH "TOTAL QUALITY  
EDUCATION".

### QUALITY POLICY

COMMITTED TO IMPART QUALITY TECHNICAL EDUCATION  
IMBIBED WITH PROFICIENCY, HUMAN VALUES AND  
CONTINUAL IMPROVEMENTS



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### VISION OF THE DEPARTMENT

TO MAKE THE DEPARTMENT OF INFORMATION TECHNOLOGY THE UNIQUE OF ITS KIND IN THE FIELD OF RESEARCH AND DEVELOPMENT ACTIVITIES IN THIS PART OF WORLD.

### MISSION OF THE DEPARTMENT

TO IMPART HIGHLY INNOVATIVE AND TECHNICAL KNOWLEDGE IN THE FIELD OF INFORMATION TECHNOLOGY TO THE URBAN AND UNREACHABLE RURAL STUDENT FOLKS THROUGH TOTAL QUALITY EDUCATION.



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#### PROGRAM EDUCATION OBJECTIVE (PEOS)

##### PEO1:

**TECHNICAL KNOWLEDGE : GRADUATES WILL BE ABLE TO IDENTIFY, ANALYZE AND CREATE SOLUTIONS FOR REAL LIFE, INDUSTRIAL AND SOCIETAL NEEDS BY APPLYING THE PRINCIPLES AND PRACTICES OF INFORMATION TECHNOLOGY.**

##### PEO2:

**TEAMWORK & ETHICS : GRADUATES WILL BE ABLE TO COLLABORATE EFFECTIVELY AND ETHICALLY IN A MULTI-DISCIPLINARY TEAM AS A MEMBER &/ AS A LEADER.**

##### PEO3:

**LIFE LONG LEARNING : GRADUATES WILL BE ABLE TO ADOPT THE CONTEMPORARY TECHNOLOGIES IN THE FIELD OF INFORMATION TECHNOLOGY TO PROVIDE SOLUTIONS FOR CHALLENGING ENVIRONMENTS.**



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### PROGRAM SPECIFIC OUTCOMES (PSOS)

ENGINEERING GRADUATES WILL BE ABLE TO:

#### PSO 1:

DEMONSTRATE TECHNICAL AND INTERPERSONAL SKILLS TO DESIGN AND DEVELOP IT ENABLE SOLUTIONS TO MEET THE REAL TIME INDUSTRIAL AND SOCIETAL NEEDS.

#### PSO2:

EXHIBIT AN ABILITY TO ADAPT TO THE EVOLUTIONARY CHANGES IN COMPUTING.



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#### ABOUT THE DEPARTMENT

- INFORMATION TECHNOLOGY IS ONE OF THE MOST DYNAMIC FIELDS IN THE MODERN WORLD. INFORMATION TECHNOLOGY OR "INFOTECH" EVOLVED WHEN COMPUTING AND COMMUNICATING TECHNOLOGIES AMALGAMATED. IT PREPARES THE STUDENTS TO MEET THE TECHNICAL DEMANDS OF BUSINESS, GOVERNMENT, HEALTHCARE, MILITARY, EDUCATION, AND OTHER ORGANIZATIONS.
- INFORMATION TECHNOLOGY IS USED IN ALMOST EVERY SPHERE OF PROFESSION, MAKING THE PROCESS MUCH EASIER, BY DEVELOPING COMPETENT AND EFFECTIVE SOLUTIONS TO REAL LIFE PROBLEMS.
- IT SECTOR IS GROWING AT FAST PACE AND CREATING AMPLE OPPORTUNITIES IN INDIA AND ABROAD FOR DESERVING CANDIDATES HAVING EMPLOYABLE SKILLS DEPARTMENT OF INFORMATION TECHNOLOGY WAS ESTABLISHED IN THE YEAR 2001 AND HAS 10 VIBRANT AND WELL QUALIFIED TEACHING FACULTY MEMBERS EXPERTISE IN VARIOUS FIELDS OF INFORMATION TECHNOLOGY WHO EXERTS DEDICATED WORK TO PRODUCE HIGH CALIBER TECHNOCRATS.
- OF THEM, THREE HAVE COMPLETED THEIR DOCTORAL DEGREES AND FOUR OF THEM ARE PURSUING THEIR DOCTORAL DEGREES. THE OBJECTIVE OF THE DEPARTMENT IS TO PREPARE THE STUDENTS TO FACE CHALLENGES IN THE CHANGING WORLD.
- IT PROFESSIONALS WILL FIND THEIR CAREER IN VARIOUS KEY AREAS LIKE ARTIFICIAL INTELLIGENCE, AUGMENTED REALITY, DATA ANALYTICS, NETWORKING, DATA MANAGEMENT, MULTIMEDIA AND COMPUTER GRAPHICS, COMMUNICATIONS, WEB TECHNOLOGY, SOFTWARE DESIGNS, MANAGEMENT AND ADMINISTRATION OF SYSTEMS.



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## Title: **Cybersecurity – Protecting the Digital World**

In the rapidly evolving digital era, Cybersecurity has become a cornerstone of Information Technology. It refers to the practice of protecting systems, networks, programs, and data from digital attacks. These cyber threats aim to access, change, or destroy sensitive information, extort money, or interrupt normal business processes.

### **Why is Cybersecurity Important?**

With the rise in digital transformation, everything from banking to healthcare relies heavily on online platforms. As a result, the risk of cybercrimes such as phishing, ransomware attacks, and data breaches has surged. A single breach can cause significant financial loss, legal issues, and damage to reputation.

### **Types of Cyber Threats:**

- **Malware**– Malicious software like viruses, worms, and spyware that harm systems.
- **Phishing** – Fraudulent emails or messages designed to steal personal information.
- **Ransomware** – Blocks access to a system or data until a ransom is paid.
- **Denial-of-Service (DoS) Attacks** – Floods a network, making it unavailable to users.
- **Man-in-the-Middle (MitM) Attacks** – Intercepts communication between two systems.



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#### **Emerging Trends in Cybersecurity:**

- Artificial Intelligence (AI) is being used to detect threats in real-time.
- Zero Trust Architecture ensures that no user or system is trusted by default.
- Cloud Security protects data stored and accessed via cloud platforms.
- Ethical Hacking involves authorized testing of systems to find and fix vulnerabilities.

#### **Career Opportunities in Cybersecurity:**

With the growing need for digital protection, cybersecurity offers exciting roles such as:

- Security Analyst
- Penetration Tester (Ethical Hacker)
- Security Architect
- Network Security Engineer
- Cybersecurity Consultant

#### **Conclusion:**

Cybersecurity is no longer optional; it's a necessity. As technology grows, so do the risks. Investing in cybersecurity ensures trust, safety, and continuity in the digital world. For IT professionals, it presents a promising field with immense scope and impact.



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## Title: Blockchain - The Future of Secure and Transparent Transactions

Blockchain is an emerging and revolutionary technology that has transformed the way data is stored, shared, and secured. Originally developed as the foundation for cryptocurrencies like \*Bitcoin\*, it has now found applications in various industries, including finance, healthcare, supply chain, and governance.

### What is Blockchain?

Blockchain is a decentralized, distributed digital ledger that records transactions across many computers. The key feature is that once data is recorded in a block and added to the chain, it is nearly impossible to alter, ensuring data integrity and transparency.

Each block contains:

- - A list of transactions
- - A timestamp
- - A cryptographic hash of the previous block
- This makes blockchain tamper-proof and secure

### Key Features:

**Decentralization**- No single authority controls the data.

**Transparency** - All participants can view the recorded data.

**Security** - Encrypted transactions and immutable records.

**-Smart Contracts** - Self-executing contracts with the terms written in code.



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#### How Blockchain Works:

- A transaction is requested.
- The transaction is broadcast to a peer-to-peer (P2P) network.
- The network verifies the transaction using consensus algorithms.
- Once verified, the transaction is added to a block.
- The new block is added to the blockchain and becomes permanent.

#### Applications of Blockchain:

- Cryptocurrency- Enables secure and anonymous digital currency transactions (e.g., Bitcoin, Ethereum).
- Supply Chain- Tracks goods from origin to delivery with transparency.
- Healthcare - Secures patient records and enables data sharing across hospitals.
- Voting Systems- Provides tamper-proof and transparent election processes.
- Banking & Finance - Speeds up cross-border payments and reduces fraud.

#### Challenges:

- High energy consumption in some blockchain models (e.g., Bitcoin mining)
- Scalability and speed issues
- Regulatory uncertainty
- Integration with existing systems

#### Conclusion:

Blockchain is not just a buzzword; it's a groundbreaking technology with the power to redefine industries. Its ability to provide \*trust, security, and decentralization\* makes it a key player in the future of digital transformation. For IT professionals, learning blockchain opens doors to innovative career opportunities.



# KAMARAJ

COLLEGE OF ENGINEERING & TECHNOLOGY



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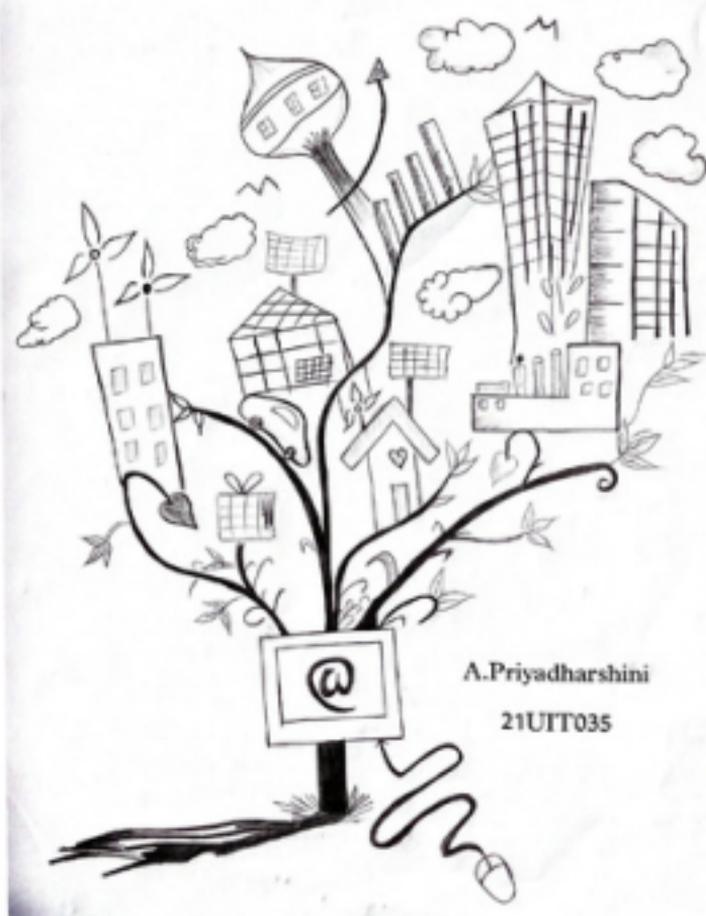
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## Tec Tree



A.Priyadharshini

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### HEAD OF THE DEPARTMENT

**DR.E.VAKAIMALAR HEADS THE DEPARTMENT OF INFORMATION TECHNOLOGY SINCE SEPTEMBER 2022. SHE RECEIVED HER DOCTORATE IN PHILOSOPHY UNDER THE FACULTY OF INFORMATION AND COMMUNICATION ENGINEERING FROM ANNA UNIVERSITY, CHENNAI. SHE COMPLETED HER PG IN COMPUTER SCIENCE AND ENGINEERING IN MEPCO SCHLENK ENGINEERING COLLEGE FROM SIVAKASI & UG IN COMPUTER SCIENCE AND ENGINEERING FROM PERIYAR MANIAMMAI COLLEGE OF ENGINEERING AND TECHNOLOGY FOR WOMEN, THANJAVUR. SHE HAS 25 YEARS OF TEACHING EXPERIENCE. HER AREA OF INTEREST INCLUDES IMAGE PROCESSING, COMPUTER VISION AND DATA MINING.**





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### Faculty Achievements

S.No	Name of the Event	Year	Name of the faculty
1	Journal of Research Administration Retailers Buying Behaviour Towards Edible Oil An Empirical Study	2024	DR.ARTHY AP/IT
	Awards - Corporate Trainer - SureSoft Awards - Advanced Technology Certified Faculty - Wipro		
	Copyrights Granted Lab Manual for Full Stack Web Development - Reg. No. L-153236/2024 Lab Manual for Web Application Development using Django Framework - Reg. No. L-153226/2024	2024	
	Copyrights Granted L-117089/2022 Compiler Design L-131497/2023 Object Oriented Programming Lab Manual	2023	
	International Journal of Advanced Science and Technology Personal Grooming-An Opinion study among Female Studnets in Engineering Colleges in Virudhunagar District 2020	2020	



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S.No	Name of the Event	Year	Name of the faculty
2	Enhancing Health Care GAN-Based Stress Detection with Capsule Networks and Lion Optimization (2025)	2025	MRS.P.MAHALAKSHMI AP/IT
			MRS.V.GAYATHRI AP/IT
			MRS.S.GAYATHRI AP/IT
			MRS.R.SARANYA PRIYADHARSHINI AP/IT
3	Skin Disease Classification and Detection using Deep Learning", Frontiers in Health Informatics 2024 (Scopus Indexed)	2024	DR.R.ARTHY AP/IT
			MS.V.DEEPA PRIYA AP/IT
			MS.PRIYADHARSHINI AP/IT
			MS.R.MUTHULAKSHMI AP/IT



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S.No	Name of the Event	Year	Name of the faculty
4	Transforming Pixels: Crafting a 3D Integer Discrete Cosine Transform for Advanced Image Compression", International Journal of Advanced Computer Science and Applications (Scopus Indexed).	2024	DR.R.ARTHY AP/IT
			MRS.V.DEEPA PRIYA AP/IT
			MR.C.RAJKANNAN AP/IT
5	Patent - Next-Gen Campus Commutes Transforming College Transportation With Real-Time Bus Tracking Technology", 2024	2024	DR.R.ARTHY AP/IT
			MS.V.DEEPA PRIYA AP/IT
			MS.PRIYADHARSHINI AP/IT



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S.No	Name of the Event	Year	Name of the faculty
6	Published a patent entitled "SKINSERENE: Unlock Brilliance with Your Dermatology Partner" 2024	2024	DR.R.ARTHY AP/IT
			MRS.V.DEEPA PRIYA AP/IT
7	Research Proposals-Granted (seed money grant 2023) College Campus Chatbot: An AI-Powered Virtual Assistant for Enhanced Campus Experience- Rs.23,000F.	2023	DR.R.ARTHY AP/IT
			MS.V.DEEPA PRIYA AP/IT



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S.No	Name of the Event	Year	Name of the faculty
8	Research Proposals-Granted (msme 2023) "In-situ Greenhouse Monitoring and Controlling System using IoT" Rs. 8 LPA	2023	MR.C.RAJKANNAN AP/IT
9	Research Proposals-Granted (seed money grant 2023) SpotCE-An App for country Egg Detector - Rs.27,000F.	2023	MRS.V.GAYATHRI AP/IT
			MRS.P.MAHALAKSHMI AP/IT
			MRS.S.GAYATHRI AP/IT



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S.No	Name of the Event	Year	Name of the faculty
10	Patent Published " Mobile Medical Emergency System Based on Block chain and 5G Communication " February 2023	2023	MS.V.DEEPA PRIYA AP/IT
11	Patent Published "Artificial Intelligence and IoT based Smart House for Activity Recognition", March 2023	2023	MRS.P.PRIYADHARSHINI AP/IT
			MR.C.RAJKANNAN AP/IT
12	Patent Published In-situ AUTOMATED GREENHOUSE MONITORING, September 2023	2023	DR.R.ARTHY AP/IT
			MR.C.RAJKANNAN AP/IT



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S.No	Name of the Event	Year	Name of the faculty
13	International Journal of Communication System Bipolar Fuzzy PROMETHEE-based Decision-Making Trust Model for Guaranteeing data dissemination reliability in Internet of Thing	2022	MR.D.VENDHAN AP/IT
14	Patent Published "Node Discovery Mechanism for IoT Capillary Networks " November 2021	2021	
15	WIPRO CERTIFIED TRAINER		DR.R.ARTHY AP/IT
			MS.V.DEEPA PRIYA AP/IT



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S.No	Name of the Event	Year	Name of the faculty
16	Patent Published "M-IOT, GPS BASED SMART TRAFFIC MANAGEMENT SYSTEM USING BLOCK CHAIN TECHNOLOGY ", on May 2022	2022	DR.R.ARTHY AP/IT
			DR.E.VAKAIMALAR ASP/IT
			MR.D.VENDHAN AP/IT
17	Patent Published "M-IOT, GPS BASED SMART TRAFFIC MANAGEMENT SYSTEM USING BLOCK CHAIN TECHNOLOGY ", on May 2022	2022	MR.C.RAJKANNAN AP/IT
			MS.V.DEEPA PRIYA AP/IT
			MS.PRIYADHARSHINI AP/IT



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S.No	Name of the Event	Year	Name of the faculty
18	Patent Published - 202441035140 - "Rice Variety Identification through Mobile App"	2024	MR.G.H.RAM GANESH AP/IT
	Design Grant Patent Published-407344-001-"Automated Organic waste to Bio-degradation Machine	2025	
	Patent Published-2002441004200- Emergency charging service for electrical vehicles equipped with deep learning and IoT-based efficient energy recycling	2024	
	Artificial Intelligence Primer Certification in Infosys SpringBoard.	2024	
	Online NPTEL Certification on "Cyber Security and Essentials"		
	Linux Certification on Cyber Security Essentials in Nasscom.		
	Cisco Certification on " Docker and Kubernetes"	2025	
COPYRIGHT Fundamentals of Cryptography : A Laboratory Perspective			



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## Student Achievements

### TECHNICAL CONTEST

s.no	Roll Number	Name of the Student	Name of the Award
1	22UIT112	H.Muthu	Won Dr.Kalam Young Achiever Award 2024.
	22UIT107	C.P. Surya Punnahai	
	22UIT101	C. Sathana	
2	22UIT097	S .Balajee	Won Best Project Award organized by IETE Chennai centre
	22UIT047	KL.Issac Pradeep Raj	
	22UIT080	S .Harish Raghavendra	
3	22UIT114	R.Kavya	Received Business Voices Award
	22UIT020	A.Darin Vidhu	



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S.NO	Roll Number	Name of the Student	Name of the Programme / Event	Prizes Won
4	22UIT051	Janavarshini.R	Paper Expo held at Sri Ramakrishna Engineering College & won 1500/- cash award	I
	22UIT056	Nooril Afina .T		
	22UIT096	Hemadharshini .R		
5	22UIT113	S.Kaviprasath	Paper Pinnacle	I
6	22UIT078	K.Sudha Shree	Farmtech Hackfest with Rs. 7000 Cash Award	I
7	22UIT102	S.Siva Sankara Pandi	Paper Presentation at Kongu Engineering College	I
	22UIT093	S.Bommuraj		
8	22UIT103	M. Sereen Fathima	Deep Quest at Vaigai College Of Engineering	I
	22UIT100	S.Suriya Jayasubisri		
9	22UIT030	M.Selva Balaji	Algo Vista at Sethu Institute Of Technology	I
	22UIT037	J.Ricky Joel		
	22UIT120	S.Anand		



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S.NO	Roll Number	Name of the Student	Name of the Programme / Event	Prizes Won
10	22UIT098	J.Gayathri	Paper Presentation conducted by PSR Engineering College	II
	22UIT009	M.Akshayaa		
11	22UIT028	M.Ashvin kumar	Pitch deck held at Velammal Institute Of Technology	II
	22UIT034	S.Subhash		
	22UIT088	P.Arun		
12	22UIT012	A.Ponkarthiga	Paper Presentation at Hindustan College Of Engineering And Technology	II
	22UIT026	B.Gayathri		
	22UIT040	T.Monica		
13	22UIT057	K.Santhiya	Paper Presentation	II
	22UIT049	G.Sakthi Priya		
	22UIT042	K.Hemavarshini		



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14	22UIT036	R.Abinaya	Technical Quiz	II
	22UIT015	T.Kali Muthu		
	22UIT092	R.Anantha Ganesh		
	22UIT059	K.Santhiya		
	22UIT049	G.Sakthi Priya		
	22UIT103	M. Sreen Fathima Gani		
	22UIT042	K.Hemavarshini		
22UIT100	S.Suriya Jayasubisri			
15	22UIT093	S.Bommuraj	Master Query Madness at Thiyagaraja College Of Engineering	III
	22UIT102	S.Siva Sankara Pandi		



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S.NO	Roll Number	Name of the Student	Name of the Programme / Event	Prizes Won
16	22UIT027	R.Shalini	REPIT held at Kalasalingam university	III
	22UIT044	V.Muthu Subhashini		
	22UIT022	P.Rathea Shyama		
	22UIT053	J.Rishwana Begam		
17	22UIT114	R.Kavya	Paper Presentation	III



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S.NO	Roll Number	Name of the Student	Name of the Programme / Event	Prizes Won
18	23UIT023	Charumathi M	Online Ideathon organized by Delhi Technological University.	II
	23UIT067	Varshitha R		
	23UIT050	Jeevitha C		
19	23UIT026	Vikashkumar P	Online Ideathon organized by Delhi Technological University.	II
	23UIT073	Hariharan N.V		
	23UIT021	Abdulnoor S		
20	23UIT014	Naveen Kumar K.M	Technical competition Intellect Showdown organized by Kongu Engineering College	II



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S.NO	Roll Number	Name of the Student	Name of the Programme / Event	Prizes Won
21	23UIT019	Denisha Antony Ramyaa A	Synchro code technical competition organized by Sethu Institute of Technology	II
	23UIT033	Raja Sri Varsha R		
22	23UIT076	Subhasri A	Next - Gen Innovators Hackathon conducted by Dhatchan Academy	II
	23UIT109	Naveena S		
23	23UIT061	Vishwaa T	Paper presentation held at SRM College for Engineering and Technology, Madurai.	II
	23UIT009	Vishal V		



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S.NO	Roll Number	Name of the Student	Name of the Award
24	23UIT057	Charumathi M	Won best presentation award in PAPERIX-24 Symposium held at Mother Theresa Engineering College, Thoothukudi.
	23UIT067	Varshitha R	
25	23UIT017	Shivashree R	Won best presentation award in PAPERIX-24 symposium held in Mother Theresa Engineering College, Thoothukudi.
	23UIT053	Anusiya R	



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### PLACEMENT CORNER

S.NO	Roll Number	Name Of The Student	Name of the Company	Package
1	21UIT018	Charanya D	FACEPREP	5.0 LPA
2	21UIT047	Easkkithai @ Sumathi M	Chella Software	4.5 LPA
3	21UIT048	Balaji G S	Xmplar Management Solutions.	4 LPA - 4.50 LPA
4	21UIT040	Vishnu Priya G	Xmplar Management Solutions.	4 LPA - 4.50 LPA
5	21UIT027	Megha A M	Xmplar Management Solutions.	4 LPA - 4.50 LPA
6	21UIT025	Shoba Sri M	Centizen Inc	4 LPA to 8 LPA
7	21UIT033	Kabilesh K	Centizen Inc	4 LPA to 8 LPA
8	21UIT014	Sudharsana I	Hexaware	4.0 LPA
9	21UIT019	Kaviya S	Hexaware	4.0 LPA



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S.NO	Roll Number	Name Of The Student	Name of the Company	Package
10	21UIT038	Meenakshi S	Cognizant	4.0 LPA
11	21UIT001	Sriathesh S	Centizen Inc	3.6 LPA
12	21UIT008	Subashini K	Centizen Inc	3.6 LPA
13	21UIT020	Karthika Devi S R	Centizen Inc	3.6 LPA
14	21UIT037	Nikitha B	Skillmine Technology Consulting Pvt., Ltd	3.0 LPA
15	21UIT024	Sivamuthu Narayana Sabariganesh A	Skillmine Technology Consulting Pvt., Ltd	3.0 LPA
16	21UIT046	Joe Selva Rakshan P	Skillmine Technology Consulting Pvt., Ltd	3.0 LPA
17	21UIT029	Akila K	Go Live	2.5 LPA
18	21UIT061	Muthuram M	Kaavian Systems	2.4 LPA



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S.NO	Roll Number	Name Of The Student	Name of the Company	Package
19	21UIT059	Saamir Gaffur Mohammed Yakub Shah	Kaavian Systems	2.4 LPA
20	21UIT056	Praveen Kumar M	Kaavian Systems	2.4 LPA
21	21UIT054	Kishore M	Kaavian Systems	2.4 LPA
22	21UIT053	Aswathi G	Kaavian Systems	2.4 LPA
23	21UIT031	Dharun S	Kaavian Systems	2.4 LPA
24	21UIT023	Sandeep Joe A	Kaavian Systems	2.4 LPA
25	21UIT021	Tejash Dhakshin S	Kaavian Systems	2.4 LPA
26	21UIT009	Mathumitha V	MRG Enterprises	1.9 LPA
27	21UIT007	Sivasakthi S	MRG Enterprises	1.9 LPA



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S.NO	Roll Number	Name Of The Student	Name of the Company	Package
28	21UIT010	Kalaiselvi K	MRG Enterprises	1.9 LPA
29	21UIT043	Kalpana Charula S	MRG Enterprises	1.9 LPA
30	21UIT052	Kaviya M	MRG Enterprises	1.9 LPA
31	21UIT057	Bala Chibi Hariesh B	Western Digital	35,000 (Stipend)
32	21UIT060	Swatheeswari G	Tringapps	10000 per Month (Stipend)

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