



CY NEWSLETTER

ISSUE NO: 06/2026
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Department of Computer Science and Engineering (Cyber Security)

VISION

Creating eminent and ethical leaders through quality professional education with emphasis on holistic excellence.

MISSION

To emerge as an institution par excellence of global standards by imparting quality engineering and other professional programmes with state-of-the-art facilities.

To equip the students with appropriate skills for a meaningful career in the global scenario.

To inculcate ethical values among students and ignite their passion for holistic excellence through social initiatives.

To participate in the development of society through technology incubation, entrepreneurship and industry interaction.

CORE VALUES

- ★ Faith in God and man
- ★ Love of fellow beings
- ★ Belief in Universal Citizenship
- ★ Moral integrity
- ★ Social commitment

DEPARTMENT VISION

To be a globally recognized centre of excellence in Cyber Security education, research and innovation by nurturing ethical professionals, fostering technological advancement through responsible practice and contributing to a secure and sustainable digital society.

DEPARTMENT MISSION

M1: Excellence in Education

To provide outcome-based and industry-oriented education by integrating core computer science principles with advanced cybersecurity technologies and practices.

M2: Ethics and Professional Responsibility

To cultivate ethical values, integrity, social responsibility, and secure computing practices for protecting digital assets and strengthening cyber trust.

M3: Research, Innovation, and Entrepreneurship

To promote research, innovation, and entrepreneurial thinking for developing sustainable solutions to emerging cybersecurity challenges.

M4: Holistic and Global Development

To enhance leadership, teamwork, lifelong learning, and global competence through industry collaboration, interdisciplinary activities, and community engagement.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PEO 1:

Graduates will apply strong foundations in computer science and cybersecurity to design, develop, and manage secure and reliable computing systems for industry and society.

PEO 2:

Graduates will pursue successful careers as professionals, innovators or entrepreneurs engaged in technology development, deployment or engineering system implementation in industry and society and contribute to the economic growth of the country.

PEO 3:

Graduates will demonstrate ethical responsibility, leadership, teamwork, and effective communication while adapting to evolving global technological environments through lifelong learning.

PROGRAMME SPECIFIC OUTCOMES (PSO)

PSO 1: Apply cyber security principles to mitigate cyber risk and analyze security requirements of an organization.

PSO 2: Develop and deploy secure software and infrastructure using modern tools and industry standards.

PSO 3 : Uphold ethical, legal, and societal responsibilities while protecting privacy, data, and digital assets.

PATENT PUBLICATIONS

The Department of Computer Science and Engineering (Cyber Security) is proud to announce that two patent applications associated with the department have been successfully published on 12th June 2026. Both inventions emerged from sustained project work carried out by faculty and students of the department, reflecting the growing culture of research, innovation, and intellectual property creation within CY. The department extends its heartfelt congratulations to the guides and student inventors for this remarkable achievement, and encourages all students to view these publications as an inspiration to pursue original, problem-solving research of their own.

An Intelligent Blacklisting System for Free Health Insurance Misuse Prevention



Ms. Sagna L. T.
(Asst. Prof.)



C. S. Swathy



Diya Ramesh Menon



Sivani Saleesh



Ramshiya Kabeer

This invention proposes an intelligent blacklisting mechanism designed to detect and prevent misuse of free health insurance schemes. Many welfare-linked insurance schemes are vulnerable to repeated exploitation by a small set of bad actors, which reduces the resources available to genuinely eligible beneficiaries.

By flagging suspicious usage patterns and repeat offenders through automated analysis, the system aims to protect welfare resources and strengthen the integrity of public health insurance programmes. The approach combines rule-based checks with intelligent pattern recognition to continuously improve detection accuracy over time.

The invention was guided by Ms. Sagna L. T., Assistant Professor, Department of Cyber Security, along with the student inventors pictured above. The team's efforts in translating a socially relevant welfare problem into a patentable technical solution stand as a model for application-driven research at the undergraduate level, and reflect the department's continued emphasis on research with real-world social impact.

Publication Date: 12/06/2026.

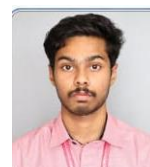
System and Method for State-Consistency Enforcement in a Cyber Deception Environment Using Deterministic State Transitions



Mr. Saju C. J.
(Asst. Prof.)



Abhinand K. Jayan



Abhishek Wilson



Hannah E. M.



S. Hrisheekesh P. V.

Hrisheekesh P. V.

This invention addresses a critical challenge in cyber deception technology — ensuring that decoy systems used to mislead attackers remain internally consistent and believable over time. Deception environments such as honeypots are only effective for as long as an attacker believes they are interacting with a genuine system.

By enforcing deterministic state transitions, the invention strengthens honeypot and deception-based defence mechanisms, making them significantly harder for adversaries to detect, fingerprint, and expose. This allows security teams to observe attacker behaviour for longer periods and gather more actionable threat intelligence.

The invention was guided by Mr. Saju C. J., Assistant Professor, Department of Cyber Security, along with the student inventors pictured above. The work reflects the department's growing strength in advanced cybersecurity defence research, particularly in deception technology, an area of increasing relevance in modern cyber defence strategy and one that is expected to see continued growth in enterprise security.

Publication Date: 12/06/2026.

2ND SEMESTER TOPPERS — DEPARTMENT OF CY

The Department of Computer Science and Engineering (Cyber Security) proudly congratulates its top five performers in the recently declared 2nd Semester results, reflecting a strong academic start for this batch of students in the department.



Gopika P.
9.41 SGPA



Fathima Shada P. P.
9.18 SGPA



Rida Nishar
9.11 SGPA



Kripa Susan Gregory T.
8.75 SGPA



Naja Nazar
8.70 SGPA

The department congratulates all five students on this achievement and encourages them to continue this momentum through the rest of their academic journey.

ACADEMIC EXCELLENCE — S6 RESULTS

CY Tops S6 Results

The Department of Cyber Security (CY) has recorded the highest Semester 6 pass percentage among all departments, achieving an outstanding 81.40% — the best performance across every branch this semester, ahead of Computer Science (78.89%), Electronics & Communication (74.07%), and Computer Applications (73.81%).

The result reflects the sustained academic rigour and close mentoring provided by the department's faculty throughout the semester, alongside the discipline and consistent effort shown by CY students.

The department congratulates all students and faculty members involved, and looks forward to building on this momentum in the semesters ahead.

Department-wise Performance

DEPARTMENT-WISE PERFORMANCE ANALYSIS				
Department Name	Total Regular Students	Total Pass	Total Fail	Pass Percentage
AD	59	47	12	79.66%
CC	43	35	8	81.40%
CE	25	12	13	48.00%
CS	180	142	38	78.89%
EC	54	40	14	74.07%
EE	44	14	30	31.82%
MC	42	31	11	73.81%
ME	50	26	24	52.00%
RA	0	0	0	0.00%

Department-wise S6 Performance Analysis — June 2026

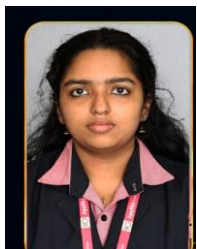
CY's result of 81.40% stands out as the top-ranked outcome among all listed departments for this examination cycle, well above the overall institutional average.

The table highlights a wide variation in performance across departments, with several branches recording pass percentages well below 55%, and one department recording a 0% pass rate for this cycle. Against this backdrop, CY's consistent, high pass percentage reflects the department's structured approach to academic monitoring and student support.

Faculty members regularly track individual student performance throughout the semester, identify students who need additional support early, and provide focused mentoring to help them stay on track. This proactive approach has been a key factor in sustaining strong results semester after semester.

6TH SEMESTER TOPPERS — DEPARTMENT OF CY

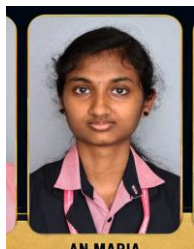
The Department of Computer Science and Engineering (Cyber Security) proudly congratulates its top five performers in the recently declared 6th Semester results. Their consistent academic performance reflects the strong culture of discipline, focus, and hard work that the department continues to nurture among its students, and stands as an inspiration to their peers across all semesters.



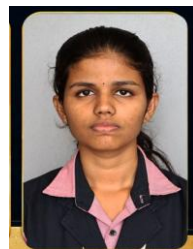
Diya Ramesh Menon
8.85 SGPA



Daniel Chemmanoor Saji
8.57 SGPA



An Maria Jack
8.24 SGPA



C S Swathy
8.20 SGPA



Joseph Pradeep Pallan
8.17 SGPA

The department extends its heartfelt congratulations to all five students, and to the faculty members and mentors who supported them throughout the semester. Their achievement, alongside the department's overall top pass percentage this cycle, reflects the strong academic foundation being built within CY.

INTERNSHIP COMPLETIONS

Synnefo Solutions, Kochi



Students with the team at Synnefo Solutions, Kochi

Sixteen S4 students of the department completed a one-month offline internship in Cybersecurity at Synnefo Solutions, Kochi (1–30 June 2026), gaining hands-on, industry-oriented exposure to real-world cybersecurity practices, tools, and workflows.

Conducted entirely on-site at the company's premises, the internship exposed students to practical aspects of the field well beyond the classroom, including live security tools and the day-to-day workflows followed by working professionals.

The department thanks Synnefo Solutions and congratulates all sixteen S4 participants on their successful completion.

RayBlaze Global Private Limited



Students with the team at RayBlaze Global Private Limited

Seven S4 students completed an offline internship in Web Development at RayBlaze Global Private Limited (8–23 June 2026), working on practical, project-based assignments in modern web development.

Conducted on-site at the company's premises, the internship introduced students to real-world front-end and back-end development practices, moving beyond textbook concepts into hands-on, project-driven learning under experienced developers.

The department congratulates all seven S4 participants on their successful completion and thanks RayBlaze Global Private Limited for the opportunity extended to the students.

STUDENT ACHIEVEMENT — VIRTUAL INTERNSHIP

Anisha TJ completes AI Engineer Internship at i11Labs



Anisha TJ

Anisha TJ, an S5 student of the department, successfully completed a one-month Virtual Internship as an AI Engineer Intern with i11Labs, from 1st to 30th June 2026. The internship, conducted entirely in remote mode, offered a stipend of INR 15,000 and flexible working hours coordinated with her assigned mentors and project team, allowing her to balance the internship alongside her academic commitments.

During the internship, Anisha worked on real-world engineering initiatives spanning Artificial Intelligence, Automation, Cloud Operations, Security, and Infrastructure Engineering, gaining exposure to how these domains intersect in live enterprise systems. She actively participated in technical learning sessions, collaborated effectively with the engineering team on assigned tasks, and successfully delivered her final project demonstration in line with the internship's learning plan, receiving positive feedback from her mentors on her technical grasp and initiative.

Her internship was completed under the guidance and mentorship of Mr. Vengalarao Pasala and Ms. Keerthi Guddadahalli, whose structured mentorship helped her navigate real-world engineering challenges beyond the classroom. The department congratulates Anisha on this achievement and commends her dedication, curiosity, and professionalism throughout the programme, and encourages other students to pursue similar virtual internship opportunities in emerging technology areas



Certificate of Successful Internship Completion — issued 30 June 2026

STUDENT ACHIEVEMENT — RESEARCH INTERNSHIP

60 Students Complete Cybersecurity Internship at SkillMerge Hackers Academy

Sixty students from the college successfully completed a 2-Week Cybersecurity Internship Program conducted by SkillMerge Hackers Academy, Kerala's No. 1 Ethical Hacking Academy, concluding on 30th June 2026. During the internship, students actively participated in hands-on cybersecurity training, practical exercises, and real-world learning activities, demonstrating dedication, commitment, and a strong enthusiasm for developing cybersecurity skills, under the guidance of Muhammed Ashique, Chief Executive Officer, SkillMerge Hackers Academy



Students with faculty following the completion of the Cybersecurity Internship Program

STUDENT ACHIEVEMENT — RESEARCH INTERNSHIP

Daniel Chemmanoor Saji completes Research Internship at NIT Calicut

Daniel Chemmanoor Saji of the department completed a research internship at the National Institute of Technology Calicut (NIT Calicut), an Institute of National Importance under the Ministry of Education, Government of India. He designed a virtual vehicle CAN bus forensics testbed simulating automotive network communication across multiple ECUs, implementing attack simulation modules for threats such as spoofing, replay attacks, DoS, and message injection.

He integrated the Suricata IDS with a custom gateway for real-time threat detection and forensic reporting, and evaluated Secure Onboard Communication (SecOC) to strengthen in-vehicle communication security. The internship gave him hands-on experience in automotive cybersecurity, digital forensics, and secure system design. The department congratulates him on this achievement.



Daniel Chemmanoor Saji

Mariya John completes Research Internship at NIT Calicut

Mariya John, an S7 Cyber Security student of the department, completed a research internship at the National Institute of Technology Calicut (NIT Calicut), an Institute of National Importance under the Ministry of Education, Government of India. She designed a private Ethereum blockchain network using Go-Ethereum (Geth), with three nodes running Ethash Proof-of-Work consensus, and integrated MetaMask with a custom banking-style DApp frontend built using Ethers.js v6, successfully verifying an end-to-end fund transfer on the network.

The internship gave her hands-on experience in blockchain node orchestration, peer-to-peer networking, and full-stack DApp development. The department congratulates her on this achievement.



Mariya John

Hrisheekesh P. V. completes Internship at Toyota Kirloskar Auto Parts (TKAP)

Hrisheekesh P. V., an S7 Cyber Security student (2023–2027) of the department, successfully completed a one-month internship as an Information Security Intern at Toyota Kirloskar Auto Parts (TKAP), with a stipend of ₹13,000. The internship gave him practical exposure to information security practices within a large-scale automotive manufacturing environment.

Notably, Hrisheekesh was also one of the student inventors on the department's recently published patent, "System and Method for State-Consistency Enforcement in a Cyber Deception Environment Using Deterministic State Transitions" — this internship further builds on his growing profile in applied cybersecurity. The department congratulates him on this achievement



Hrisheekesh P. V

STUDENT ACHIEVEMENT — GOVERNMENT INTERNSHIP

Nakul Suresh completes Internship at Kerala Police Cyber Division

Nakul Suresh, an S2 Cyber Security student of the department, successfully completed an internship in various wings of the Kerala Police Cyber Division, based at Police Headquarters, Thiruvananthapuram, from 30th June to 6th July 2026. The Cyber Division is the state's dedicated law enforcement wing for handling cybercrime investigation, digital forensics, and cyber operations, making this a valuable early opportunity for a student to see how cybersecurity concepts are applied in an actual law enforcement setting.

During the internship, Nakul was exposed to the working of various wings within the division, gaining insight into how cybercrime cases are investigated and how coordination is carried out between operational units under the Cyber Operations wing of the PHQ. The internship was formally certified by the Superintendent of Police, Cyber Operations, PHQ, on 6th July 2026, and the department congratulates Nakul on this achievement.



Nakul Suresh



Certificate of Successful Internship Completion — issued 6 July 2026

FACULTY DEVELOPMENT — INTERNSHIP COMPLETIONS

Ms. Sagna L. T. completes Internship in Linux with Tools for Cyber Forensics



Certificate of Internship Completion — "Linux with Tools for Cyber Forensics," Networkz Systems

Ms. Sagna L. T., Assistant Professor, Department of Cyber Security, successfully completed an internship in "Linux with Tools for Cyber Forensics," conducted by Networkz Systems, Viyyur, Thrissur, from 29th April to 16th May 2026. The programme strengthened her practical expertise in Linux-based forensic tools and techniques, reinforcing the department's continued emphasis on faculty upskilling in specialised cybersecurity domains.

Ms. Remya M completes Faculty Internship in Ethical Hacking



Certificate of Completion — Professional Immersion Program in Ethical Hacking, SAFE Technologies

Ms. Remya M completed the Professional Immersion Program in Ethical Hacking, a faculty internship conducted by SAFE Technologies, from 20th April to 8th May 2026. The programme provided hands-on immersion in ethical hacking practices and tools, adding to the department's growing pool of faculty expertise in offensive security and hands-on cyber defence training