Jyothi Engineering College (AUTONOMOUS)
Reaccredited with NAAC (Grade A) and NBA Programmes (CE, CS, EC, EE, ME, MR)
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A Centre of Excellence in Science and Technology by the Catholic Archdiocese of Trichur

CY NEWSLETTER

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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.

NATIONAL HACKATHON — OPCODE IMPACT ’26

Teams from across the country gathered at Jyothi Engineering College (Autonomous), Cheruthuruthy, Thrissur, on 9–10 October 2026 for OPCODE IMPACT ’26, a 24-hour national level hackathon on sustainable development presented by the Department of Computer Science and Engineering (Cyber Security). The department’s flagship event of Cyber Security Month carried prizes worth ₹40,000.



OPCODE IMPACT ’26 at Jyothi Engineering College (Autonomous)

Teams Build Through the Night for a Secure Tomorrow



Teams at work through the night beneath the lights of the central atrium

Under the theme “Secure Today. Sustain Tomorrow.”, participants built through the night, turning ideas into working solutions that pair strong security with long-term social impact.

The hackathon was organised with the Computer Society of India, the Institution’s Innovation Council, CYEA and Cyber Club CYBERTON.

RedTeam Hacker Academy, Dhanlaxmi Bank, ESAF Small Finance Bank, NeST Technologies, Synnefo Solutions, Lexyle, Hackup Technology, Pegasi Communications and ROOT NODES supported the event as partners and sponsors.

DySP Sri. K. C. Vinu Inaugurates Hackathon



Chief Guest Sri. K. C. Vinu addressing the inauguration ceremony

OPCODE IMPACT ’26 opened on 9 October with an inauguration ceremony led by Chief Guest Sri. K. C. Vinu, Deputy Superintendent of Police (DySP), Shoranur Sub-Division, Palakkad District, Kerala.

He spoke to participants about the growing role of technology in public safety and the responsibility that comes with building secure systems. With the formal opening complete, teams took their places on the floor and the 24-hour clock began.

HANDS-ON SESSION — DEPLOY YOUR WEBSITE TO THE CLOUD

Students Take Their Websites from Code to Live URL

Ideathon and Hackathon participants, beginners and student developers brought their laptops and their own website projects to a hands-on cloud deployment session held on 15 October 2026, from 2:00 to 3:00 PM in WAB 305.

Run by the department and Cyber Club CYBERTON ahead of INNOVEX Ideathon 2K26, the session took participants from local code to a live, shareable URL, versioning on GitHub and deploying through Vercel. They learned how to prepare a website for deployment, upload a project to GitHub, deploy with Vercel, configure and publish, get a live website URL, and use automatic deployment updates.

The session was organised by S7 Cyber Security and Cyber Club CYBERTON with IIC, CYEA and CSI as part of the course CCT433 Cloud Computing and Security, and was aligned to SDGs 4, 8, 9 and 17.



Session poster

COMPETITIONS — CYBER SECURITY MONTH

Students Think Like Attackers at Capture the Flag



Teams work through challenges together

Teams of two or three raced to find hidden flags at the department's Capture the Flag challenge, held on 22 October 2026 from 10:30 to 11:30 AM in WAB 305 as part of Cyber Security Month.

Working on their own laptops with no AI tools permitted, participants applied their technical knowledge to realistic attack and defence scenarios, thinking critically under time pressure and always within ethical bounds. Cash prizes awaited the top teams.

Ms. Aswani P was the faculty coordinator, with An Maria Jack, Mariya John, Britto Jerry and Shelin Lavin as student coordinators. The event formed part of the course CCT433 Cloud Computing and Security and was aligned to SDGs 4, 9 and 16.

INNOVEX Ideathon 2K26 Turns Ideas Into Impact



Teams from across departments develop their ideas at WAB 305

Students from every department took on real-world problems at INNOVEX Ideathon 2K26, held on 22 October 2026 at 11:00 AM in WAB 305. Working in teams of two across four tracks, Cyber Security, Cloud, Networking, and Data Science & AI, they pitched solutions with measurable social and economic impact.

Held in collaboration with IIC, Cyber Club CYBERTON, CYEA and CSI as part of CCT433 Cloud Computing and Security, the ideathon offered cash prizes for winners, a Best SDG Innovation award and participation certificates. It was aligned to SDGs 8 and 9.

Dr. Geethu Mary George was the faculty coordinator, with Aadith K M, Aswajith Santhosh, Manuel Paul and Kavyasree as student coordinators.



Capture the Flag in pictures, including a walkthrough of the OBSCURA challenge on screen

WORKSHOP — CLOUD SHIELD 2026

Students from every department learned how cloud platforms work and how they are secured at Cloud Shield 2026, a free, hands-on workshop held on Thursday, 22 October 2026, from 1:15 to 3:30 PM in WAB 305, the S7 Cyber Security Classroom.

Full House for Introduction to AWS



A full house for "Introduction to AWS", a beginner-friendly cloud computing session

Themed "Secure the Cloud. Protect the Future.", the workshop combined expert theory sessions with hands-on activities, including a beginner-friendly session on cloud computing and a live walkthrough on the AWS console. Participants took part in teams of one or two.

Adwaith Tops Closing Quiz

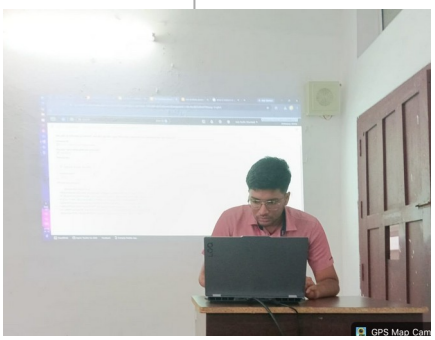


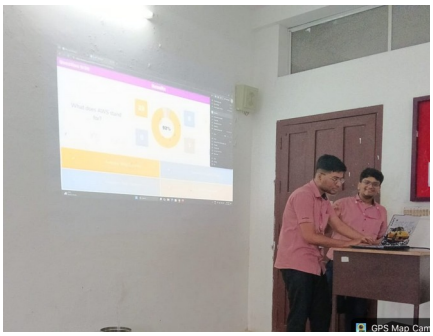
Final standings: Adwaith 1st, Aleena 2nd, Ajith 3rd

The afternoon closed with a quiz to test what participants had learned. Adwaith finished first, followed by Aleena and Ajith. A cash prize went to the top performer, and every attendee received a certificate of participation.

Ms. Aswani P was the faculty coordinator, with Anjana K R and Gawtham Krishna as student coordinators. The workshop formed part of CCT433 Cloud Computing and Security and was aligned to SDGs 4, 9 and 11.







Regions, availability zones and edge locations; a live walkthrough on the AWS console; and the closing quiz

MICRO PROJECT EXPO — PRISM 2026

S5 Students Showcase Working Prototypes at PRISM 2026

The department's micro projects moved out of the lab and onto the exhibition floor at PRISM 2026, "A Spectrum of Innovation", held on 29 October 2026 at 11:00 AM in the SecureNet Coding Lab, WAB 412.

S5 Cyber Security student teams demonstrated working prototypes built for the course PBCST504 Microcontrollers, spanning embedded systems, IoT, security solutions and practical everyday applications, and talked visitors through the design behind each one. Highlights included live project demonstrations, interaction with the innovators and participation certificates.

Organised with Cyber Club CYBERTON, the expo was coordinated by staff members Ms. Sagna L T and Mr. Joyel P R, with Adhith Kumar A S and Anna Maria Thomas of S5 CY as student coordinators. It was aligned to SDGs 4, 8, 9, 11 and 12.





Inauguration of PRISM 2026, and the event poster

STUDENT ACHIEVEMENT — FIRST PRIZE

S5 CY Team Wins Shelter 7 State-Level Design Challenge

Three S5 Cyber Security students, Adhithiyan Kumar, Adhith Kumar A S and Gautham Krishna C A of Team SHS, took first prize at Shelter 7 — Design Challenge 2026, a state-level student design competition held as part of World Habitat Day 2026.

Organised by the Department of Civil Engineering, Jyothi Engineering College (Autonomous), the competition gave teams from colleges across Kerala a relief camp design problem on 13 October. Teams submitted their solutions by 16 October and presented at the finals on 26 October, where the winning concept was *Five Neighbourhoods, Not Rows of Tents*.



Team SHS with the Shelter 7 first prize

STUDENT ACHIEVEMENTS & OUTREACH

Student-Founded Start-Up ROOT NODES

ROOT NODES, an innovation start-up in Technology and EdTech, has been founded by Ahammed Farhan Abdulla P M of S5 CY.

Anjana K R Wins First Prize at Flux Forum

Anjana K R of S7 CY won first prize at the Flux Forum paper presentation at VYVIDH'26, Vidya Academy of Science and Technology.

Seniors Introduce First-Years to Kali Linux

Senior students took the lead in welcoming first-years to the field, delivering introductory sessions on cybersecurity fundamentals and the Kali Linux toolkit in association with ROOT NODES. S1 CY students attended the first session on 5 October 2026, and S1 AD A students the second on 16 October.

The sessions were delivered by S5 CY students Ahammed Farhan, Aadithiyan K Kumar, Akshay Krishna K J, Shriram S and Abhishek T V.

FACULTY ACHIEVEMENTS

Faculty Complete Development Programmes

Mr. Joyel P. R completed the 12-week NPTEL–AICTE FDP course *System Design for Sustainability* from IIT Guwahati, which ran from July to October 2026.

Ms. Anusha K completed the AICTE Training And Learning (ATAL) Academy FDP *Empowering Educators with Artificial Intelligence: Tools, Techniques and Trends* at National College from 26 to 31 October 2026.

Dr. Resmi A. M and Dr. Geethu Mary George attended the one-day national FDP *Next-Gen Classrooms: Integrating Generative AI into Modern Pedagogical Practice*, organised by Inkyvom on 4 October 2026.

Four Faculty Join National Workshop

Dr. Geethu Mary George, Ms. Geetha P. V, Ms. Sagna L. T and Ms. Anusha K participated in the national-level online workshop *Outcome Based Assessments in the AI Era*, held in October 2026 by Nehru College of Engineering & Research Centre (Autonomous), Thrissur, with ipsr solutions.

Faculty Engage with Industry

Dr. Resmi A. M and Ms. Geetha P. V attended the 2-day Master Series class on *AI in Cybersecurity* at NeST Digital Academy on 29–30 September 2026.

Ms. Geetha P. V and Ms. Sagna L. T took part in the 8-hour offline session of the Faculty Industry Internship Program at NeST Digital Academy on 28 October 2026.

Faculty at IBM Qiskit Fall Fest

Ms. Geetha P. V and Ms. Sagna L. T participated in IBM Qiskit Fall Fest 2026, organised by QuDAIS Lab, IIIT Kottayam, from 7 to 11 October 2026.