

HOW THIS PROGRAMME BENEFITS YOU:

- Cybersecurity Expertise
- Strong CSE Foundation
- AI & Emerging Technologies
- Hands-on Industry Skills
- Future-Ready Security Domains
- Career & Higher Education

CAREER PATHWAYS:

 SECURITY OPERATIONS & DEFENSE • SOC Analyst • Security Analyst • Threat Hunter • Incident Responder • Vulnerability Analyst • Security Operations Engineer FOCUS AREAS: ✓ Security Monitoring & SIEM ✓ Incident Response ✓ Threat Intelligence ✓ Vulnerability Management ✓ Security Automation	 NETWORK & CLOUD SECURITY • Network Security Engineer • Cloud Security Engineer • Security Architect • Firewall Engineer • IAM (Identity & Access Management) Specialist • Cloud Security Analyst FOCUS AREAS: ✓ Network Security ✓ Cloud Security (AWS, Azure, GCP) ✓ Zero Trust Architecture ✓ Secure Access & IAM ✓ Security Infrastructure	 APPLICATION SECURITY & DEVSECOPS • Application Security Engineer • DevSecOps Engineer • Secure Code Reviewer • Penetration Tester • Web Application Tester • Security Automation Engineer FOCUS AREAS: ✓ Secure SDLC ✓ Static & Dynamic Testing ✓ API Security ✓ DevSecOps & CI/CD Security ✓ Security Tools & Automation
 CYBER FORENSICS & DIGITAL INVESTIGATION • Digital Forensics Analyst • Malware Analyst • Forensic Investigator • E-Discovery Specialist • Incident Forensics Responder • Cyber Crime Analyst FOCUS AREAS: ✓ Digital Forensics Tools ✓ Malware Analysis ✓ Memory Forensics ✓ E-Discovery & Evidence Handling ✓ Cyber Law & Ethics	 RISK, GOVERNANCE & COMPLIANCE • GRC Analyst • Risk Analyst • Compliance Analyst • Information Security Officer • Privacy Analyst • Audit & Assurance Specialist FOCUS AREAS: ✓ Risk Management ✓ Policy & Compliance ✓ Information Security Governance ✓ Standards (ISO, NIST, GDPR) ✓ Audit & Reporting	 EMERGING TECH & RESEARCH • AI/ML Security Engineer • IoT Security Specialist • Blockchain Security Analyst • Cryptography Engineer • Cyber Threat Intelligence Analyst • Security Researcher FOCUS AREAS: ✓ AI/ML in Cybersecurity ✓ IoT/OT Security ✓ Cryptography & PKI ✓ Blockchain Security ✓ Advanced Threat Research

TOP CYBERSECURITY RECRUITERS:

- Palo Alto Networks
- Cisco
- Microsoft Security
- Fortinet
- IBM Security
- Deloitte Security
- ServiceNow
- Commvault

ROLES OF DISTINGUISHED GVP ALUMNI

- Process Engineers
- Scientists and Researchers
- Technical Advisors
- Automation and Process Engineers
- Senior Industry Professionals
- Faculty and Researchers at leading institutions

GVP Estd. 1988



GVPIHLR Estd. 2026

GAYATRI VIDYA PARISHAD INSTITUTE OF HIGHER LEARNING AND RESEARCH

*(Deemed to be University under Distinct Category
under section 3 of the UGC Act, 1956)*

Kommadi, Madhurawada, Visakhapatnam - 530 048, Andhra Pradesh

School of Computer Science and Engineering

Department of Computer Science and Engineering

B.Tech. (Computer Science and Engineering - Cybersecurity)

(GVPIHLR- North Campus, Kommadi)

Brochure

Vision :

To be a premier center of education in cybersecurity by preparing skilled, ethical, and responsible professionals who can protect the digital world and solve real-life security challenges.

Mission :

- To provide quality education in Computer Science and Cybersecurity with practical learning.
- To develop technical skills through laboratories, projects, internships, and industry interaction

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ABOUT GVPIHLR:

Gayatri Vidya Parishad (GVP) is established in 1988 with a service motive, committed to develop education in India. The basic aim is

“to promote, establish, maintain and assist or aid in maintaining educational and other institutions with a view to impart education in all branches in general and in Advanced Technology, Management, Education and Science (including Healthcare) in particular and thus to facilitate securing gainful employment for the youth of the country.”

In line with this and in tune with National Educational Policy 2020, the GVP established Gayatri Vidya Parishad Institute of Higher Learning (GVPIHLR), a distinct university that promotes integration of Multidisciplinary, Interdisciplinary and Transdisciplinary fields. It enables the blend of ancient wisdom and traditional values with modern science and technology for the health and well-being of the society among the youth.

GVPIHLR will provide students with an integrative learning experience that transcends conventional disciplinary boundaries and offers abundant opportunities for academic exploration, innovation, and holistic development. It will foster multidisciplinary and transdisciplinary education and research through flexible curricular structures that enable students to creatively combine diverse disciplinary areas of study and pursue emerging areas of knowledge in multidisciplinary contexts.

Through this integrated academic ecosystem, GVPIHLR enable learners attain critical thinking, creativity, innovation, collaboration, and problem-solving, while drawing upon the strengths of diverse disciplines to address complex societal challenges and contribute meaningfully to the advancement of knowledge and the well-being of society.

SCHOOLS UNDER GVPIHLR:

- School of Arts and Humanities
- School of Chemical, Mechanical and Civil Engg.
- School of Electrical and Electronics Engg.
- School of Commerce and Management
- School of Computer Science and Engg.
- School of Sciences

UG PROGRAMS UNDER SCHOOL OF CHEMICAL, MECHANICAL AND CIVIL ENGINEERING:

- B.Tech. in CSE
- B.Tech. in CSE (AIML)
- B.Tech. in CSE (Data Science)
- B.Tech. in CSE (Cyber Security)
- B.Tech. in CSE (Cyber Forensics)
- B.Tech. in IT

B.TECH. CSE - CYBERSECURITY AT A GLANCE

WHY CYBERSECURITY?

In a rapidly digitizing world, cybersecurity is the key to protecting information, systems, and people. Our B. Tech CSE (Cybersecurity) program is designed to create future-ready professionals with in-depth knowledge, practical skills, and an ethical mindset to defend against cyber threats and build a safer digital world.

PROGRAMME OBJECTIVES

- Build strong foundations in Computer Science, Programming, Mathematics, and Cybersecurity.
- Develop skills in securing Networks, Cloud, IoT, and Enterprise Applications.
- Gain hands-on expertise in Ethical Hacking, Penetration Testing, Digital Forensics, Malware Analysis, and Incident Response.
- Encourage learning through Labs, Industry Projects, Internships, Hackathons, and CTF Competitions.
- Develop Professional Ethics, Leadership, Communication, and Lifelong Learning skills to address emerging cybersecurity challenges.



PROGRAMME FEATURES

- Professional Core
- Core Electives
- Skill Courses
- Multiple Entry / Multiple Exit
- Open Electives
- MOOCs / SWAYAM
- Honors / Minors
- Choice Based Credit System (CBCS)

CORE LEARNING AREAS

• Computer Science Foundations • Cybersecurity Fundamentals • Programming & Scripting • Network Security & Defence • Security Automation & SIEM • Cloud, IoT & Application Security • Network & Information Security • Ethical Hacking & Penetration Testing • Digital Forensics & Malware Analysis • Cloud, IoT & Application Security • Threat Intelligence & Incident Response • AI for Cybersecurity & Security Analytics

MODERN TOOLS & COMPUTATIONAL EXPOSURE

Wireshark • Nmap • Burp Suite • Metasploit • Kali Linux • Splunk • Autopsy • Volatility • FTK Imager • Nessus • Snort • OWASP ZAP • Docker • Kubernetes • MITRE ATT&CK

LEARNING BEYOND THE CLASSROOM

• Project based learning • Internships • Workshops • Guest Lectures • Hackathons • Clubs