DAYANANDA SAGAR UNIVERSITY

7 DECADES LEGACY
IN EDUCATION & HEALTHCARE

A+ GRADE ACCREDITED BY NAAC

Advance. Innovate. Lead.
Secure the Digital World.

M.Sc. (CYBERSECURITY)

Index

DSU & its Rich Legacy of Excellence & Innovation

Dayananda Sagar Institutions founded in the 60's by a visionary, Late Sri. R. Dayananda Sagar (Barrister-at-Law) committed to take knowledge to the people, transforms today's students into responsible citizens and professional leaders of tomorrow. Dayananda Sagar University created by an Act of the Karnataka State in 2014, built on this adorable legacy and inspired by its own milestones, meeting the needs of quality higher education in this part of the world.

Dayananda Sagar University (DSU) is one of the top buoyant centers of transformative education, technological breakthroughs, & multidisciplinary research across engineering, law, management and media. Being a young, proactive, and leading university, DSU is breaking new ground and introducing some of the most advanced and innovative technologies in pedagogy with the goal of fostering the enduring skills and dispositions that the students will need for this new world.

University Accreditation and Rankings

TIMES ENGINEERING
TIMES ALL INDIA ENGINEERING INSTITUTES RANKING SURVEY 2023
NUMBER ONE
- Top Emerging Engineering Institutes
- Emerging Engineering Institutes - Placement
- Emerging Engineering Institutes - Research Capability

IIRF -2025
IIRF EDUCATION IMPACT AWARD
Promising Private University for Academic Excellence & Learning

ICARE RATINGS KSURF
Teaching Excellence
Research Excellence

- Emerging engineering institute
- Emerging engineering Institute Placement 2022
- Emerging Engineering Institute Research Capabilities

DSU has Rank No. 1
By TIMES OF INDIA 2022

ET THE ECONOMIC TIMES 2023
Excellence in Academic Facilities & Learning Resources

IIRF -2024
NATIONAL RANK–9
TOP PRIVATE UNIVERSITIES IN INDIA (OVERALL)
STATE RANK 3 SOUTH ZONE RANK 3

IIRF -2026
EDUCATION IMPACT AWARD
Excellence in Employability & Placement Performance

TIMES BUSINESS AWARDS
BEST EMERGING UNIVERSITY 2021

34th elets WORLD EDUCATION SUMMIT 2025 CHENNAI
01st November 2025
OUTSTANDING UNIVERSITY WITH BEST PLACEMENTS

About School of Computer Applications

The School of Computer Applications offers a dynamic ecosystem for study, research, and professional growth for both faculty and students. It strives to groom its students into competent IT professionals, researchers, and entrepreneurs. The School of Computer Applications was established in the academic year 2016–17 with the 3-year BCA program, and further expanded with the 2-year MCA program in 2021–22, nurturing fresh talent in the field of Information Technology and equipping them with a plethora of skills to choose an area of interest at an early stage. In line with emerging global trends and industry demand, the School has further diversified its offerings. From the academic year 2024–25 onwards, it has introduced the Ph.D (Computer Science) program, and from 2025–26 onwards, the B.Sc (Data Science) , M.Sc (Data Science), B.Sc (Cybersecurity) , M.Sc (Cybersecurity) programs, thereby strengthening its academic and research ecosystem.

The two-year M.Sc (Cybersecurity) program is grounded in the belief that advanced theoretical insight, reinforced with immersive practical experience, is essential to navigate and counter the complexities of today's rapidly evolving cyber landscape. As industries worldwide seek specialists who can secure digital ecosystems and lead innovation, the School's mission is to develop the next generation of cybersecurity experts — professionals with strong technical foundations, research-driven capabilities, industry-ready skills, and an unwavering commitment to ethical and responsible cyber practice.

VISION

To develop innovative and skilled computer professionals through cutting-edge research, education, and entrepreneurial initiatives, fostering leadership qualities to address the evolving challenges of emerging technologies and contribute to societal advancements nationally and globally.

MISSION

- To deliver cutting-edge education and research opportunities that drive innovation in computer science and applications.
- To maintain state-of-the-art facilities and attract internationally recognized faculty to support advanced learning and research.
- To continuously update our curriculum to reflect the dynamic landscape of emerging technologies and industry needs.
- To foster strong partnerships with industry and the community, enhancing practical experiences and entrepreneurial initiatives.
- To develop graduates who are not only skilled and innovative computer professionals but also ethical leaders, equipped to tackle global and national challenges and contribute to societal advancements.

Dean's Message

"The best way to predict the future is to create it." – Peter Drucker

At the School of Computer Applications, Dayananda Sagar University, we believe in preparing students not just for today's opportunities but for tomorrow's challenges. In a world where technology evolves every moment, our mission is to nurture learners who are curious, creative, and ready to lead change.

Our programs — BCA, B.Sc (Data Science), MCA, M.Sc (Data Science), B.Sc (Cybersecurity) , M.Sc (Cybersecurity) and Ph.D (Computer Science) — are designed as a seamless pathway from foundational learning to advanced research. Students gain exposure to cutting-edge domains such as artificial intelligence, machine learning, data science, cybersecurity, cloud computing, mobile and web technologies, as well as emerging fields like generative AI, Internet of Things (IoT), quantum computing, and blockchain — all supported by a curriculum that blends strong theoretical foundations with hands-on practice.

Beyond classrooms and labs, we place strong emphasis on research, innovation, and industry collaboration. Students actively participate in projects, hackathons, and research groups, present at conferences, and publish their work. Our faculty bring expertise, mentorship, and a global perspective, ensuring that learning goes far beyond textbooks.

We are equally committed to holistic growth. From soft skills and leadership development to internships and placements, every student is guided to become not only an IT professional but also a responsible global citizen. Our alumni, now thriving in leading companies and entrepreneurial ventures, are living examples of what it means to learn, grow, and succeed at DSU.

I warmly welcome you to explore the opportunities at the School of Computer Applications. Together, let us create the future with knowledge, innovation, and purpose.

Dr. S. Senthil
Professor & Dean
School of Computer Applications
Dayananda Sagar University, Bengaluru

Program Overview

As digital infrastructures expand, so do the complexities and sophistication of cyber threats. The M.Sc (Cybersecurity) program at Dayananda Sagar University (DSU) is designed to produce advanced cybersecurity professionals who can lead, innovate, and secure the future of digital ecosystems.

This two-year postgraduate program blends deep theoretical foundations, hands-on technical training, and a strong research orientation. Students gain expertise in cyber defense, threat intelligence, digital forensics, cloud and network security, & cybersecurity governance. The curriculum is enriched with industry-validated tools, simulated cyber ranges, and real-time projects, enabling learners to move from problem-solvers to innovators and thought leaders in the cybersecurity space.

Why Study Cybersecurity?

"Cybersecurity is no longer a support role —
it's a strategic pillar for every digital enterprise."

Explosive Industry Demand

The global cybersecurity workforce shortage has reached 3.4 million professionals (ISC², 2025), and India alone is projected to create 1.5 million cybersecurity jobs by 2026 (NASSCOM-DSCI, 2024).

Rising Research Opportunities

With the convergence of AI, IoT, and cloudecosystems, cybersecurity research has become central to both academia and industry innovation.

Premium Career Growth

Postgraduates with advanced cybersecurity expertise earn 30–50% higher compensation and progress faster to leadership roles.

Global Impact

Cybersecurity professionals directly safeguard the digital economy, privacy, and national infrastructure — making this one of the most impactful technology domains today.

Future-Proof Career

With digital transformation accelerating across all industries, cybersecurity remains one of the most resilient and future-ready professions.

If you have a research mindset, an analytical approach, and a passion for solving complex digital challenges — cybersecurity is your frontier.

WHY CHOOSE M.Sc (Cybersecurity) at DSU?

Where Advanced Learning Meets Research and Innovation

EC-Council Academic Partner

Authorized academic partner of EC-Council — offering access to official global cybersecurity content and pathways toward professional certifications.

Industry Immersion Sessions

Specialized sessions led by practitioners from top cybersecurity firms, national agencies, and cloud security companies to provide real- world exposure.

Research-Driven Learning

- Students are trained to write technical and research papers, preparing them for both academic and industrial research roles.
- Opportunities to publish in national and international journals and conferences, guided by DSU's research mentors.
- Focus on developing problem statements relevant to industry trends and global security challenges.

Hands-on Cyber Range Labs

Engage in simulated attack-defense environments to learn practical skills in ethical hacking, intrusion detection, and incident response.

AI and Threat Intelligence Integration

Exposure to AI-driven cybersecurity analytics, predictive defense models, and automated threat detection.

Expert-Led Sessions

Learn directly from certified ethical hackers, digital forensics experts, and security analysts from academia and industry.

Structured Project-Based Learning

Skill Building Project (Semester II)

Applied project in collaboration with industry mentors.

Minor Project (Semester III)

Research-based project with focus on publication.

Major Dissertation (Semester IV)

Capstone project or thesis addressing real- world cybersecurity problems, often resulting in publishable research.

Global Certification Readiness

Students gain additional skills through specialized training mapped to globally recognized cybersecurity bodies such as EC-Council, $(ISC)^2$, ISACA, CompTIA, Cisco, and GIAC — providing exposure to 25+ international competency areas and multiple certification readiness pathways, thereby enhancing their global employability and professional credibility.

Career Enablement

Dedicated pre-placement training, cybersecurity aptitude tests, resume clinics, and mock technical interviews.

Interdisciplinary Collaboration

Work alongside students from various disciplines — bridging the technical, legal, and strategic aspects of cybersecurity.

Specialization Tracks

Cyber Defense & Threat Intelligence

Digital Forensics & Incident Response

Cloud, IoT & Infrastructure Security

Duration

2 Years (4 Semesters)

Eligibility Criteria

B.E / B.Tech in ECE / IT / EEE / CSE / ISE / TE / BCA / B.Sc in Computer Science / Mathematics / Statistics / Information Science / Information Technology with a minimum of 50% (45% in case of SC/ST) marks in aggregate from any recognized University / Institution or AMIE or any other qualification recognized as equivalent thereto.

Program Outcomes

Graduates will be able to:

- Analyze, design, and implement advanced cybersecurity architectures.
- Conduct impactful research and publish scholarly work in reputed journals and conferences.
- Perform advanced digital forensic analysis and threat investigation.
- Integrate AI, automation, and data analytics into cybersecurity decision-making.
- Apply legal, ethical, and governance principles in securing digital assets.

Career Pathways

The M.Sc (Cybersecurity) program at Dayananda Sagar University opens doors to a wide range of specialized, high-impact careers in cybersecurity, governance, and emerging technologies. Graduates gain deep technical expertise, strategic vision, and research acumen to lead, innovate, and secure the digital world.

Technical Roles

- Cyber Threat Intelligence Analyst
- Security Operations Center (SOC) Manager / Lead Analyst
- Vulnerability Assessment & Penetration Testing (VAPT) Engineer
- Cloud Security Engineer / Architect
- Malware Analyst / Reverse Engineer
- Incident Response & Recovery Specialist
- Application Security Engineer

Strategic, Managerial & Consulting Roles

- Cybersecurity Consultant / Advisor
- Risk & Compliance Manager
- Governance, Risk & Compliance (GRC) Analyst
- Chief Information Security Officer (CISO)
- IT Auditor / Security Assessor
- Business Continuity & Disaster Recovery Planner
- Security Product Manager

Research, Innovation & Academic Roles

- Cybersecurity Researcher / Scientist
- Academic Faculty / Research Mentor
- Innovation Lab Specialist
- Ph.D. Research Scholar

Emerging & Cross-Domain Roles

- AI Security Specialist
- IoT / OT Security Engineer
- Blockchain Security Analyst
- Cyber Policy & Strategy Analyst
- Digital Risk Advisor
- Privacy & Data Protection Officer

Top Hiring Sectors

- Defense & Intelligence Agencies
- Banking, Financial Services & Insurance (BFSI)
- Cloud & IT Infrastructure Providers
- Telecommunications & Networking
- Healthcare & Biotech
- E-Governance & Smart City Projects
- Cybersecurity Consulting Firms
- Energy & Manufacturing Industries
- Academia, R&D, and Innovation Labs

Building the Next Generation of Cyber Leaders and Thinkers

At Dayananda Sagar University, cybersecurity education goes beyond defense — it shapes innovators, strategists, and researchers who lead the future of digital trust.

Join us to research, innovate, and lead in securing the technologies of tomorrow.

Admissions Helpline Nos:

080 4646 1800 **+91 6366885507** **Visit: www.dsu.edu.in**

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