

CYBER - SECURITY

www.alphatech.ac.ke

PROSPECTUS
2026/2027



About the Programme

Protect Digital Systems. Defend the Future.

As businesses, governments, and individuals become increasingly connected, cybersecurity has become one of the world's fastest-growing and most critical professions. Every organization needs skilled professionals who can protect networks, secure data, respond to cyber threats, and safeguard digital infrastructure.

The Cybersecurity programme at AlphaTech Training Institute equips students with practical skills in network security, ethical hacking, cloud security, digital forensics, and cyber defence. Through hands-on laboratories, real-world simulations, and industry projects, students graduate prepared to identify vulnerabilities, defend against cyber threats, and build secure digital environments.

Why Study Cybersecurity?

- Enter one of the world's fastest-growing technology careers.
- Gain practical experience using industry-standard cybersecurity tools.
- Learn how to detect, prevent, and respond to cyber threats.
- Develop hands-on skills through security labs and real-world simulations.
- Build a professional portfolio that demonstrates your technical expertise.
- Prepare for globally recognised cybersecurity certifications and career opportunities.
- Develop the knowledge to protect businesses, governments, and individuals from cyber attacks.

Who Should Enroll?

- This programme is ideal for:
- KCSE graduates passionate about design and creativity
- University students seeking practical design skills
- Career changers pursuing creative professions
- Working professionals looking to upskill
- Entrepreneurs interested in interior design and space planning

Qualification

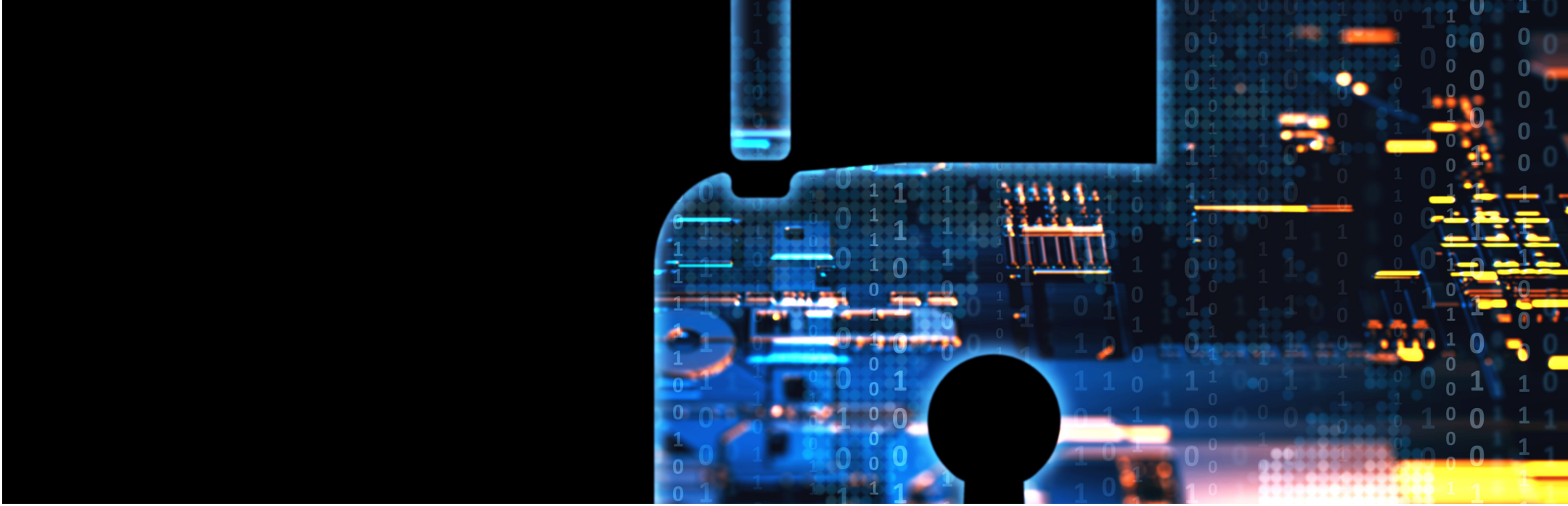
1. Diploma in Cyber Security

- **Duration:** 3 Academic Years (6 Semesters) + Internship
- **Award:** CDACC Diploma
- **Mode of study :** Full-time, Part-time, Weekend
- **Entry Requirements :** **KCSE Mean Grade C– and above (or equivalent)**

2. Certificate in Cyber Security

- **Duration:** 1 Academic Year (3 Semesters)
- **Award:** CDACC
- **Mode of study :** Full-time, Part-time, Weekend
- **Entry Requirements :** **KCSE Mean Grade D, D+ (or equivalent)**





Career Opportunities

Graduates can work as:

- Cybersecurity Analyst
- Information Security Officer
- Ethical Hacker
- Penetration Tester
- Network Security Administrator
- Security Operations Centre (SOC) Analyst
- Digital Forensics Analyst
- Cloud Security Specialist
- Incident Response Analyst
- Cybersecurity Consultant
- IT Security Administrator
- Risk & Compliance Officer

Graduates may find employment in:

- Technology companies
- Financial institutions
- Healthcare organizations
- Manufacturing companies
- Government agencies
- Telecommunications companies.
- Research institutions
- Startups
- E-commerce businesses
- Educational institutions
- Consulting firms

Why AlphaTech?

Students choose AlphaTech because we offer:

- **Technology-Driven Learning:** Learn using modern digital design tools and industry-relevant technologies.
- **Practical Studio Experience:** Develop your skills through hands-on projects and real-world design challenges.
- **Industry-Relevant Curriculum:** Study a programme aligned with international professional standards.
- **Experienced Trainers:** Learn from qualified professionals with academic and industry expertise.
- **Portfolio Development:** Graduate with a professional portfolio that showcases your creativity and technical ability.
- **Career-Focused Education:** Develop the practical competencies employers and clients expect from today's interior designers.



What You'll Learn

1. **Networking Fundamentals**

Develop a strong understanding of computer networks and how modern digital systems communicate securely.

You'll develop skills in:

- Computer networking
- Network architecture
- TCP/IP protocols
- Routing and switching
- Wireless networking
- Network troubleshooting

2. **Ethical Hacking**

Learn how cybersecurity professionals identify vulnerabilities before cybercriminals can exploit them.

You'll develop skills in:

- Ethical hacking methodologies
- Vulnerability assessment
- Penetration testing
- Security auditing
- Threat identification
- Security reporting

3. **Security Operations**

Understand how organisations monitor, detect, and respond to cybersecurity threats.

You'll develop skills in:

- Security monitoring
- Incident response
- Threat intelligence
- Security policies
- Risk assessment
- Security operations management

4. **Cloud Security**

Learn how to secure cloud-based applications, platforms, and digital infrastructure.

You'll develop skills in:

- Digital investigations
- Evidence collection
- Malware analysis
- Incident investigation
- Cybercrime analysis
- Forensic reporting



5. Cyber Defence Projects

Apply your knowledge through practical cybersecurity challenges that simulate real-world attacks and defence strategies.

You'll develop skills in:

- Security project planning
- Team collaboration
- Cyber defence simulations
- Security testing
- Professional reporting
- Portfolio development

6. Projects & Innovation

Apply your knowledge by designing practical solutions that solve real-world challenges while building an impressive professional portfolio.

You'll develop skills in:

- Project planning
- Solution design
- Industry case studies
- Team collaboration
- Portfolio development
- Innovation and entrepreneurship

Learning Experience

Students learn through:

- Live practical laboratory sessions
- Cybersecurity simulations
- Ethical hacking exercises
- Hands-on security projects
- Capture-the-Flag (CTF) challenges
- Industry case studies
- Portfolio development
- Capstone cybersecurity project
- Industrial attachment opportunities
- Career coaching and mentorship
- Industry guest lectures
- Collaborative team projects



Contact Us



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