

AI & AUTOMATION

www.alphatech.ac.ke

PROSPECTUS
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About the Programme

Build Intelligent Solutions. Shape the Future.

Artificial Intelligence is transforming the way we work, communicate, innovate, and solve problems. From intelligent assistants and predictive analytics to autonomous systems and business automation, AI is becoming an essential skill across every industry.

The Artificial Intelligence & Automation programme at AlphaTech Training Institute equips students with practical, industry-focused skills in AI, machine learning, automation, programming, and intelligent systems. Through hands-on projects, real-world case studies, and exposure to cutting-edge technologies, students graduate ready to design innovative solutions that drive digital transformation across industries.

Why Study Artificial Intelligence & Automation?

- Develop one of the world's fastest-growing and most in-demand technology skill sets.
- Gain practical experience building AI-powered applications and automation solutions.
- Learn from experienced trainers using industry-relevant technologies.
- Build a professional portfolio through real-world projects.
- Prepare for careers in Artificial Intelligence, Machine Learning, Data Analytics, and Intelligent Automation.
- Acquire globally relevant skills that can be applied across virtually every industry.
- Develop entrepreneurial skills to build AI-driven products and businesses.

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 Artificial Intelligence & Automation

- **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 Artificial Intelligence & Automation

- **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:

- Artificial Intelligence Developer
- Machine Learning Engineer
- AI Solutions Specialist
- Automation Developer
- Prompt Engineer
- AI Applications Developer
- Robotics & Automation Technician
- AI Product Specialist
- Data & AI Analyst
- Intelligent Systems Developer
- AI Consultant
- Innovation & Digital Transformation 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. AI Foundations

Build a solid understanding of Artificial Intelligence and discover how intelligent technologies are transforming businesses and industries.

You'll develop skills in:

- AI fundamentals
- AI ethics and responsible innovation
- Problem-solving with AI
- Data-driven decision-making
- Intelligent systems
- Emerging AI trends

2. Programming for Artificial Intelligence

Develop the programming knowledge required to create intelligent applications and AI-powered solutions.

You'll develop skills in:

- Python programming
- Programming logic
- Algorithms
- Data structures
- API integration
- Software development principles

3. Machine Learning

Learn how intelligent systems analyse data, recognise patterns, and make accurate predictions.

You'll develop skills in:

- Data preparation
- Supervised learning
- Unsupervised learning
- Model evaluation
- Predictive analytics
- Neural network fundamentals

4. Intelligent Automation

Explore how Artificial Intelligence improves productivity by automating business processes and repetitive tasks.

You'll develop skills in:

- Workflow automation
- Intelligent business processes
- Robotic Process Automation (RPA)
- Process optimisation
- AI-assisted decision-making
- Digital transformation strategies



5. Generative AI

Master the latest AI technologies used to generate text, images, code, audio, and digital content.

You'll develop skills in:

- Prompt engineering
- Large Language Models (LLMs)
- AI assistants and chatbots
- AI content generation
- Generative AI applications
- Responsible AI practices

6. AI Projects & Innovation

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

You'll develop skills in:

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

Learning Experience

Students learn through:

- Live instructor-led practical sessions
- Hands-on AI laboratory exercises
- Real-world industry projects
- Interactive coding workshops
- Case study analysis
- Collaborative innovation challenges
- Portfolio development
- Capstone AI project
- Industrial attachment opportunities
- Career coaching and mentorship
- Industry guest speakers
- Continuous practical assessments



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