GREEN INNOVATION, DIGITAL TRANSFORMATION & SUSTAINABLE ENTERPRISE COURSE

Introduction

The Executive Course in Green Innovation, Digital Transformation and Sustainable Enterprise equips senior executives, innovation leaders, technology professionals, policymakers, entrepreneurs, and sustainability practitioners with the strategic knowledge and practical tools required to leverage emerging technologies for sustainable enterprise transformation. Participants will develop competencies in digital strategy, Industry 4.0, artificial intelligence, Internet of Things (IoT), automation, clean technologies, circular economy innovation, smart manufacturing, sustainable business models, and ESG-driven innovation. The transition to a sustainable economy is being accelerated by rapid advances in digital technologies, artificial intelligence (AI), Industry 4.0, clean technologies, automation, and data-driven innovation. d long-term competitiveness. The course explores innovation management, digital transformation strategies, green technologies, intelligent automation, cloud computing, big data analytics, digital governance, cybersecurity, technology investment, sustainable operations, and organizational transformation. The programme is aligned with internationally recognized standards and frameworks including ISO 56002 Innovation Management Systems, ISO 14001 Environmental Management Systems, ISO 50001 Energy Management Systems, ISO/IEC 27001 Information Security Management Systems, IFRS Sustainability Disclosure Standards (ISSB), Global Reporting Initiative (GRI), the OECD Digital Economy Framework, and the United Nations Sustainable Development Goals (SDGs).

Course Objectives

- Understand the relationship between innovation, digital transformation, and sustainability.
- Develop digital transformation strategies that support ESG and organizational growth.

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Location Thika & Nairobi

- Apply Industry 4.0 technologies to improve operational performance and sustainability.
- Integrate artificial intelligence and automation into business processes.
- Design sustainable innovation ecosystems and business models.
- Evaluate clean technologies and renewable energy solutions.
- Strengthen digital governance, cybersecurity, and technology risk management.
- Measure digital transformation and sustainability performance.
- Foster a culture of innovation, collaboration, and continuous improvement.
- Lead enterprise-wide transformation toward intelligent and sustainable organizations.

Course Modules

> Module 1: Green Innovation, Sustainability and Enterprise Transformation
- Principles of green innovation
- Sustainable enterprise transformation
- Global innovation and sustainability trends
- ESG as a driver of innovation

> Module 2: Digital Transformation Strategy and Industry 4.0
- Digital transformation frameworks
- Industry 4.0 technologies
- Digital business strategy
- Organizational digital maturity

> Module 3: Artificial Intelligence, Automation and Intelligent Enterprise
- Artificial Intelligence applications
- Machine learning and intelligent automation
- Robotic Process Automation (RPA)
- Ethical AI and responsible innovation

> Module 4: Smart Manufacturing, IoT and Connected Operations
- Smart manufacturing systems
- Internet of Things (IoT)
- Digital twins and predictive maintenance
- Supply chain digitalization

> Module 5: Clean Technologies, Renewable Energy and Circular Innovation
- Clean technology solutions

- Renewable energy integration
- Circular economy innovation
- Sustainable product lifecycle management

> Module 6: Data Analytics, Digital Platforms and Business Intelligence
- Business intelligence systems
- Big data analytics
- Executive dashboards
- Data-driven strategic decision-making

> Module 7: Digital Governance, Cybersecurity and ESG Risk Management
- Digital governance frameworks
- Cybersecurity fundamentals
- Technology risk management
- ESG governance in digital enterprises

> Module 8: Innovation Leadership, Organizational Culture and Change Management
- Innovation leadership
- Building an innovation culture
- Change management for digital transformation
- Talent development and future skills

> Module 9: Sustainable Business Models, Investment and Competitive Advantage
- Sustainable business model innovation
- Green investment strategies
- Technology commercialization
- Competitive advantage through sustainability

> Module 10: Developing a Green Digital Transformation Roadmap
- Digital and sustainability maturity assessment
- Enterprise transformation planning
- Implementation governance
- Monitoring, evaluation and continuous improvement