



ELIZABETH SLOANE INSTITUTE OF TECHNOLOGY

VISION

The vision of the Elizabeth Sloane Institute of Technology (ESIT) is to be recognized as a world-class Institute that would provide excellence and leadership in education, training, research, consultancy and extension services in Cybersecurity, Machine Learning and Artificial Intelligence in the Fourth Industrial Revolution.

MISSION

The mission of the Elizabeth Sloane Institute of Technology (ESIT) is to develop and enhance the capacity of professionals through innovative curriculum and research, which will advance their world and life through gainful employment.

PHILOSOPHY

ESIT programs are designed to meet the challenges of the Fourth Industrial Revolution in the global sector by enhancing students' preparation for professional careers, life-long learning and responsible participation as members of the larger society. The programs are also structured so that the students will have twenty-first-century skills and disciplines so as to be able to offer solutions to complex problems in Industry 4.0.

PROGRAMMES

ESIT is an online institution of higher learning. The graduate programs at ESIT provide students with a range of educational opportunities by which they may achieve competence in major emerging tech. programs such as:

- Cyber Security
- Big Data and Business Intelligence
- Security Technology
- Machine Learning and Artificial Intelligence
- MBA in Information Security

Equipped with 21st-century knowledge and skills which involves computational skills, creativity, and statistical analysis. Learners can engage in creative research and development, bridging between meeting human needs and scientific knowledge.

WHY ESIT

Curriculum Development Approach

ESIT is a technology academy specialising in high-performance master's degrees and professional training programs based on distance teaching methodologies. ESIT aims to offer several international reference programs throughout the English Speaking Caribbean and West Africa. Elizabeth Sloane LLC registered offices in Kingston, Jamaica, Los Angeles, USA, and Accra, Ghana.

Access to our virtual campus and 24/7 service guarantees that all our students are provided with easy access to help by our team of tutors who make every effort to resolve their doubts or questions via our mentor program, allowing them to gain a complete understanding of a given subject. We offer a flexible training system fully adapted to our students' schedules, enabling them to combine their studies with their personal and professional activities.

In addition, we are certifying our courses to increase our students' value and learning journey.

ESIT e-Campus

ESIT e-Campus is a space open to all students that will allow them to share opinions and experiences with other students within the school. Students will have access to

the entire database of students and can comment on forums, get to know their campus mates and create a network to thrive in their professional careers by making new contacts.

Environment Awareness

Committed to the environment; all our courses are run in a 100% digital format. Our study model will allow our students to download all

the content of our training programs and display it on a tablet or any other device while comfortably studying from anywhere in the world.

ESIT Tutorials Series

These are several live workshops designed to facilitate industry-standard projects and discussions.

METHODOLOGY

Distant Learning

All our training programs are online to facilitate combining personal and professional life. Thus, students can access the training content through our Virtual Campus. We facilitate live workshops via our Learning Management Software (LMS), our leading platform that allows our students to study from anywhere in the world anytime. All evaluations and final works are also submitted online. Once enrolled, our students obtain access to the ESIT Virtual Campus, where they can find all necessary academic resources, establish a direct line of communication with other students and teachers, access discussions, students, lecturers, tutorials, employment opportunities, ethnical hacking platforms and link to our training partner's self-paced learning material.

Evaluation

All our training programs are designed on a continuous quality training model to align with industry certification bodies, which supports our students in gaining adequate knowledge to advance in their careers. To facilitate the learning process, students will have access to manuals, live classes, video tutorials, ESIT Workroom, Tutorials with invited experts, multimedia resources to help with reinforcing and retaining information, as well as the personalised tutorials available from Monday to Sunday for any questions they may have. After each lesson on the different subjects, students will perform self-correcting exams to reinforce their learning. Once they pass the tests, they will hand in a final work product for each subject so that our teaching staff can evaluate the acquired knowledge. Students must pass all evaluation exercises to obtain certification from our training programs.

24/7 System

Our 24/7 system guarantees that all our students are provided with constant help by our team of tutors on any day of the week. They may study at their own pace, whenever and wherever they want. All questions will be reviewed and answered within 24 hours. We provide a flexible training system fully adapted to our students' schedules, enabling them to combine their studies with their personal and professional activities.

Calendar

All of our Professional Certifications and Master's begin the day the student chooses. They must inform us if they prefer to enrol on a different day. The duration of each program will depend on the number of credits, ranging between 4 and 24 months. If a student doesn't complete the program within the initial training period due to lack of time or not obtaining the minimum passing grade, they can request a resit, which comes at an additional cost. If students have personal issues, they must notify their Academic Department. The student's case will be evaluated individually.

Admission

To access any of our Master's programs, applicants must meet the following requirements:

- Students must hold a bachelor's degree certificate.
- Students must study for a graduate degree or equivalent higher education title.
- Professionals that already have recognised experience in the field.

FINANCIAL AID

At ESIT, we believe that education should be available to everyone. This is why we have a financial aid system for our Master's students. Financial aid is directly connected with research and is limited based on merit and need. The list of finances is as follows:

Private Student Loans

are made directly to students by banks or other lenders. Students generally need a creditworthy co-signer. Before borrowing a private student loan, you should use all other forms of financial aid and borrow only what you need.

Scholarships

A huge number of scholarships based on need, achievement, affiliation, and/or a myriad of other criteria are awarded to students each year.

Melanie V. Wynter Fund

The Melanie V. Wynter Fund "Return to Learning" scholarship is offered to assist females in completing a master's degree. Students must reside in Jamaica (St. Elizabeth and St. Ann), Kenya, Ghana or Tanzania to apply and continue college after a significant interruption. Special consideration is given to women who demonstrate strong academics, financial need, and an interest in STEM.

For their tenure, they must present a quarterly white paper focusing on Cyber Security, Data Privacy or Security Technology.

Lauryn C. Poyser Award Application

The LCP Techpreneur Award focuses on broadening the number of traditionally underrepresented groups in the management and operation ranks of the Edtech, Agritech, Fintech or software development industry. Eligible candidates must have a declared major or experience in software development and cyber security, data privacy, or product engineering.

Applicants must submit a 500-word essay discussing the role they hope to play in

advancing the future of Edtech, Agritech, Fintech or Security Technology. As well as detail a legacy project they will execute if awarded.

C. Courtney Jackson Award

The Elizabeth Sloane Scholarship is an international graduate programme that enables outstanding young Commonwealth professionals to study at the Elizabeth Sloane Institute of Technology. Applicants must meet the following criteria:

1. Academic Excellence
2. Demonstrate mastery in software development, debate, Mathematics, technical literature and engineering pursuits, particularly where security products are developed.
3. High integrity and moral force of character and instincts to lead and to take an interest in humanity.

Nneka Jackson Afro-futurism Scholarship

The Nneka Jackson Afro-Futurism Scholar operates exclusively for educational purposes, especially studying, researching, and disseminating information concerning futuristic technology development. Caribbean, African or Black American students actively pursuing graduate degrees related to careers in Technology at ESIT are eligible to apply.

Sandra Wynter AgriTech Grant

Scholarships are awarded based on academic achievement, leadership, school and community service, extracurricular activities, and expressed interest in the study of agri-processing or AgriTech.

The Kusi P. Adu- Amankwah Award

Scholarships are awarded based on academic achievement, leadership, and community service to Information Technology professionals working within the Legal and Development Sector throughout West Africa.

MASTERS DEGREES

Degree – Master of Science in Cyber Security

Duration – 24 months

Credits – 60

Cost – 4,800 USD

Introduction

This Master's degree curriculum is a carefully designed sequence of hands-on technical courses, management courses with leadership experiences, student-designed research, presentation opportunities and a suite of professional certification. The Master of Science (MS) in Cybersecurity is a two-year program designed to prepare individuals with undergraduate degrees in technology disciplines for responsible leadership roles in technology-based and information-based workplaces.

The Master of Science in Cybersecurity degree equips technology professionals to assess the security needs of information and network systems and then manage the implementation and maintenance of the recommended security solutions. Our holistic approach to cybersecurity develops students' understanding of information security technologies and cybersecurity's economic, legal, behavioural, and ethical impacts. Students graduate as competitive candidates in the job market with connections to ESIT alumni and ICT professional recruiters.

Objective

This program is designed to be completed while you work full time, applying the cyber security concepts and the technical skills you learn in class on the job. To help you balance work, school, and life, this curriculum is offered 100% online with the ability to attend hybrid ESIT Tutorials.

Certification

- ISC2 CISSP

Access

- Ethical Hacking Community
- Tutorial
- Library

Modules

- Security Essentials
- IT Security Planning, Policy, Leadership
- Defensible Security Architecture Engineering
- Managing Human Risk
- Incident Management
- Advanced Technical Research & Communication
- Implementing & Auditing the Critical Security Controls

- SIEM with Tactical Analytics
- Defending Web Applications
- Cyber Defence Operations
- Data Protection and Privacy Management

Degree – Master of Business Administration in Security Technology

Duration – 24 Months

Credits – 60

Price – 4,800 USD

Introduction

The MBA in Security Technology aims to provide strategic and global vision to IT Managers and Executives, as well as to give knowledge on various departments of the company, such as HR, Finance, Operations, Sales, Trade, Marketing, Coaching and Career Development.

Objective

This program is designed to be completed while you work full time, applying the cyber security and data privacy concepts and the technical skills of leading an organisation. To help you balance work, school, and life, this curriculum is offered 100% online with the ability to attend virtual ESIT Tutorials.

Certification

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- ISC2 CISSP

Access

- Ethical Hacking Community
- Tutorials

Modules

- Strategic Management
- International Accounting
- Financial Management
- Personnel Management and Organizational Behaviour
- Legal Business Environment
- Situational Response
- Data Protection and Privacy Management
- IT Security Planning, Policy, Leadership
- Project Planning & Processing
- Information Technology Project Management
- Marketing
- Security Essentials
- Incident Response
- Venture Funding

Degree - Master of Science in Big Data and Business Intelligence

Duration - 18 months

Credits - 60

Price - USD 4,800.00

Certification

- Executive Education in People and Performance Management

Access

- Tutorials
- Library

Introduction

The Master of Science in Big Data and Business Intelligence aims to provide students with a global and globalised view of Big Data technologies and their usefulness for achieving business objectives. It also provides applied and practical training in analytical techniques for marketing, preparing the student for the current demand in the workplace that requires professionals to handle large volumes of data.

The Master of Science in Big Data and Business Intelligence is for those professionals who wish to acquire knowledge in the interpretation and use of Big Data oriented to marketing. Graduates in Telecommunications, Information Technology, Physics, Mathematics, Advertising, Marketing, Public Relations, Business or related.

Big Data oriented to marketing. Graduates in Telecommunications, Information Technology, Physics, Mathematics, Advertising, Marketing, Public Relations or Business related.

OBJECTIVES

- Learn to measure and evaluate critical indicators of the business in all its areas, applying data science methods.
- Know how to apply analytical and predictive models to business situations that require advanced treatment.
- Apply in a practical way the different analytical techniques to implement them in business to meet the current demand in the business sector.
- Understand the role of different database models and multidimensional databases in analysing and visualising patterns and trends.
- Efficiently manage ICT and implement them in the development of our skills.

Modules

- Web Positioning
- Marketing
- E-commerce
- Customer Analytics
- Corporate Social Responsibility
- Community Management
- ETL Process
- Big Data Marketing
- Big Data
- Business Intelligence

Degree - Master of Science in Artificial Intelligence and Machine Learning

Duration - 24 months

Credits - 60

Price - USD 4,800.00

Certification

- Executive Education in People and Performance Management

Access

- Tutorials
- Library

The Artificial Intelligence (AI) and Machine Learning (ML) course outlines are designed for postgraduate students majoring in Science, Technology, Engineering, and Mathematics (STEM). Students from other fields are welcome to learn new ideas. This outline is intended for a degree program focusing on developing skills and knowledge in AI and ML fields. The program provides a solid foundation in computational intelligence and soft computing techniques, fundamental computer science subjects such as algorithms, networking, advanced Computer Networks, Computer Architecture, basic graph theory, algorithms, and web technologies. Students will also gain knowledge and expertise in diverse fields of AI and ML through this program. This program provides a specialized focus on areas of science and technology with a strong emphasis on teaching and research, with the goal of developing further skills and career opportunities. It provides a comprehensive education on nature-inspired systems, metaheuristic algorithms, soft computing, and embedded systems. Students will have the opportunity to do internships at leading companies, research and development (R&D) labs as part of the program during their studies. Students who complete the program will acquire critical thinking and problem-solving skills, strong

analytical and research skills, exposure to modern soft computing techniques, communication and project management skills, and independent and reflective learning. Undoubtedly, graduates in this program will be competent to take up R&D positions in academia, Industry, and other systems.

Program Objectives

The objective of the AI and ML Program include:

- (i) To build strong foundations in terms of analytical reasoning and critical thinking with a focus on Artificial Intelligence and Machine Learning so that graduates can make effective and significant contributions globally.
- (ii) To strengthen research and innovation in Industry 4.0 space.
- (iii) To develop professionals with high competency in data science and analytics using soft computing skills capable of using Artificial Intelligence and Machine learning techniques to solve real-life complex problems.
- (iv) To train professionals capable of designing and developing solutions to address real-life problems and make global impacts.

Program Outcomes

The expected AI and ML program outcomes include to

- (i) Developing strong theoretical foundations and practical skill sets
- (ii) problem-solving and research skills.
- (iii) Provide opportunities to independently conduct research and development (R&D) work to solve practical problems. – Attributes include Research skills and Ethical practices
- (iv) Develop professional and entrepreneurial skillsets that enable graduates to adapt to the latest technologies swiftly – Attributes include soft computing/modern techniques.
- (v) Enable the students to explore and execute projects with a strong economic, social, and environmental impact.
- (vi) Build the ability to learn independently and engage in life-long learning. Attribute – Lifelong learning skills
- (vii) Facilitate students to acquire good communication skills regarding technical reports, research publications, group activities, seminars, and presentations. Attribute - Independent and reflective learning skills, research and communication skills.

in core areas of Artificial Intelligence and Machine Learning to facilitate research, innovation, and product development. Attributes include Scholarship of Knowledge, Critical thinking,

Modules

- Big Data and Data Analytics
- Nature Inspired Computation
- Computational Intelligence
- Robotics and AI Systems
- Foundations of Data Science
- Modelling and Simulation
- Deep Learning
- Cloud Computing
- Research Methodology
- Project with Seminar