Master of Science in Information Technology (MSc. IT)

PROGRAMME OVERVIEW

The programme is designed to meet the ever increasing demands and needs of the market for expertise in Information Technology (IT) by equipping students with a broad and sound knowledge of both technical and managerial skills. The programme specifically focuses on applied computer techniques with emphasis on the needs of students from various backgrounds e.g., Computer Science, Software Engineering etc. who wish to build careers in the field of Information Technology. It also offers Leadership and Management skills to prepare students to take up leadership roles in academia and the IT Industry e.g. Senior Level Managers in IT, academics in IT, etc. The programme further opens the way for candidates who may wish to develop further their knowledge in IT through research, with the intention of progressing to PhD research levels.

CAREERS

Students are prepared to work as Data Scientist, Machine learning Engineer, Business Intelligence Developer, Big Data Engineer/Architect, Research Scientist, System Security consultant, Chief Information Security Officer, Software engineers, Database developers and administrator, Information Technology Consultants, Web designers and developers, Systems analysts, IT/IS managers, Network engineers, Middle and Senior level managers in IT. The candidates may further their previous careers in their own discipline.

Student Testimonial

I am interested in tech, a field that shapes our present and future. I’m currently working in a software firm so the degree adds value to what I’m already doing.

Lewis Munene
Head of quality assurance at Riverban Solutions Ltd
MSc. Information Technology.

MODE OF STUDY

Intake: January and September
Time: Classes are all day. (8-5 p.m.)
Duration: 2years
Attendance: 2 weeks every quarter(3 months)
**SPECIALIZATION AREAS**

The MSc. IT Curriculum provides for the following areas of specialization:

- **Business Intelligence and Data Analytics:** Students will cover advanced concepts on Artificial Intelligence, Natural Languages Processing, Machine Learning, Spatial Data Analysis, IoT
- **Systems Security & Forensics:** Students will study Enterprise systems security, cloud security, Digital forensics, Information Systems security Design, Cryptography and Information Security
- **Telecommunication and Computer Networks:** Students will study areas that include Performance Analysis of Computer Networks, Wireless Computing, Mobile Adhoc and Sensor Networks, Data Centres Design and Management

**INTERNATIONAL ACADEMIC MODULE**

The programme has an International course module that is designed to provide a one week international exposure on contemporary themes in Information Technology through dedicated course delivery at an Academic Centres of Excellence in Europe.

**EXPECTED OUTCOMES**

1. **Competitive skills:** Strathmore aims to help you develop leadership skills, which will be useful in the world of work. Your investment will have a high return in terms of your competitive advantage.

2. **Realistic approach:** You will adopt a reflective, analytical, participative approach to education and consequently to your career.

3. **Great counsel:** Our lecturers and coaches are experts in their respective fields and they will be a resource to help you develop a new perceptive and see new opportunities.

4. **Powerful networks:** You will learn from and alongside diverse, talented classmates as you share a transformative journey together. As such, you will develop a network of friends and contacts that will last a lifetime.

5. **Exceptional learning experience:** You will acquire skills to take on any challenge and think critically backed by solid fundamental knowledge. As a result, you will gain hands-on-experience to tackle real life.

**HOW TO APPLY?**

Applications can be done through admissions@strathmore.edu or +254 703 034 032

**WHY STUDY IN STRATHMORE UNIVERSITY?**

1. **Global exposure/ international outlook:** Strathmore’s international faculty and partners, global alumni network and diverse student body connect you with a world of opportunities.

2. **Academic rigour:** Through our innovative research and learning approach, you will enhance your capacity to manage and solve business challenges.

3. **People-focused:** We believe that putting people at the center of decisions is essential to sustainable business growth and outstanding business education.

4. **Teaching staff:** Our dedicated teaching staff are active professionals who will bring you face-to-face with real situations. You will learn through:
   - Case studies
   - Innovative teaching
   - Individualized attention and guidance, and
   - Small class groups.

5. **Timely completion of studies:** Students are assured of completion of an uninterrupted learning period of 2 years.

6. **World-class facilities:** Strathmore has avant-garde architecture that has been designed and built uniquely and in compliance with energy conservation requirements. This ensures delivery of a rich and holistic learning experience for its students.

**ENTRY REQUIREMENTS**

The following shall be eligible for admission into Master of Science in IT in Strathmore University:

- Holders of First Class or Upper Second Class degrees in a Computer Science or IT discipline from recognised universities
- Holders of Lower Second Class degrees in a Computer Science or IT discipline plus Postgraduate Diplomas or Certificates in relevant fields of study; or with at least two years working experience in an IT environment from the graduation date and;

- You must have had at least a C+ mean grade at KCSE or its equivalent.