TECHNICAL UNIVERSITY OF MOMBASA

ISO 9001:2015 Certified

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PROGRAMME BROCHURE · MASTERS

Master of Science in Information Technology

2 Year(s) · Part Time · Institute of Computing and Informatics

Qualification level	Masters
Duration	2 Year(s)
Mode of study	Part Time
Awarded by	Technical University of Mombasa
Sponsorship	Self-Sponsored
School / institute	Institute of Computing and Informatics
Department	Computer Science and Information Technology
Programme code	MSIT

Overview

The Master of Science in Information Technology (MSIT) programme is designed to equip learners with advanced theoretical knowledge and practical skills in the selection, development, integration, and administration of secure computing technologies. It enables graduates to apply IT solutions to personal, organizational, and societal needs.

The programme prepares learners to develop theoretical knowledge and practical skills for addressing Information Technology needs in different sectors, including manufacturing, health, agriculture, housing, and education.

The programme normally extends over two academic years, with each academic year comprising two semesters of sixteen weeks. It may take up to four academic years to complete. The programme includes coursework, ICT research seminars, and a thesis.

Entry requirements

An applicant for the Master's degree (KNQF level 9) in Technical University of Mombasa must have the following minimum qualifications:

- A relevant academic Bachelor's Degree from a recognized institution of higher learning, or in the case of foreign students, universities recognized by the Commission for University Education (CUE), with a minimum qualification of **Second-Class Honours (Upper Division)** or a cumulative Grade Point Average (GPA) of **3.00 on a scale of 4.00**, or its equivalent in the relevant discipline.
- A **Second-Class Honours (Lower Division)** or a cumulative Grade Point Average (GPA) of **2.50 on a scale of 4.00** in the relevant discipline from TUM or any other University recognized by CUE, and at least **two years of relevant working experience since graduation**.
- A Bachelor's degree with at least **480 credits** in a qualification of **KNQF level 7** in a relevant study area.
- A relevant postgraduate diploma.

What you will learn

By the end of the programme, graduates should be able to:

- Demonstrate mastery of theoretical knowledge and critically analyze theories and trends in Information Technology.
- Analyze complex, real-world problems and apply computational approaches to the problem-solving process.
- Design and implement IT-based solutions to meet a given set of computing requirements.

- Evaluate situations and unique perspectives in computing practice based on legal and ethical principles.
- Demonstrate the ability to conduct scientific research in Information Technology.

Career prospects

Graduates of the Master of Science in Information Technology programme may pursue advanced professional, research, and leadership opportunities in manufacturing, service sectors, research, academia, transportation, and other organizations that use IT. Potential career opportunities include:

- IT Manager
- IT Project Manager
- IT Consultant
- Systems Analyst
- Cloud Computing Specialist
- Data Analytics Specialist
- IT Researcher

Fees

Computer Science and Information Technology - Masters fee structure · amounts in KES per semester (version 1)

	Semester 1	Semester 2	Year total
Year 1	94,675	85,675	**180,350**
Year 2	77,175	75,675	**152,850**
Total for the programme			**333,200**
Application fee (paid once, when you apply)			**2,000**

How to apply

Apply online through the student information system at **smis.tum.ac.ke/application/register**. Have your academic certificates, national ID or passport and a passport photograph ready. For admission dates, requirements for your intake and help with your application, contact the office above.

Contact us

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