

**PROGRAMME BROCHURE · DIPLOMA**

# Computer Science Technologist Level 6

6 Semester(s) · Full Time · Institute of Computing and Informatics

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|---------------------|---------------------------------------------|
| Qualification level | Diploma                                     |
| Duration            | 6 Semester(s)                               |
| Mode of study       | Full 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      | 0610 654 A                                  |

## Overview

The Computer Science Level 6 programme is designed to train a competent computer science technologist who can respond to societal needs through the use of computer applications, software design and development, computer networks, and computer systems maintenance.

The programme is motivated by the need for Kenya to harness computing science for increased productivity and effectiveness across all sectors of the economy, promote socio-economic awareness of computing, participate effectively in the global technological economy, and address the increasing demand for computer science professionals in the world of work. The programme aims to equip students with adequate skills in computer applications, design and development of software and networks, and maintenance of computer systems.

## Entry requirements

A candidate who wishes to be admitted into the programme must have the minimum University entry requirements and satisfy either of the following:

i. A minimum aggregate grade of **C- (Minus)** in the Kenya Certificate of Secondary Education (KCSE).

OR

ii. A pass in the **Certificate in Information Technology and Computer Maintenance (CICM)** or an equivalent course from a recognized institution.

## What you will learn

The curriculum identifies competencies that a trainee must achieve to perform work in the ICT sector. By completing the relevant units of competency, trainees are expected to be able to:

- Perform document processing and basic computer operations.
- Install basic data communication devices and internet.
- Perform basic computer programming.
- Install and customize computers.

- v. Develop basic networking infrastructure.
- vi. Perform basic database systems operations.
- vii. Perform computer workshop safety and maintenance.
- viii. Develop information security systems.

## Career prospects

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The curriculum does not explicitly list career prospects or job titles for graduates of the Computer Science Technologist Level 6 qualification. It identifies the competencies required for work in the ICT sector, including computer operations, programming, computer installation and maintenance, networking, databases, and information security.

Potential employment areas suggested by the competencies covered in the curriculum include:

### 1. Computer Technician

Graduates may install, configure, maintain, and troubleshoot computer systems.

### 2. ICT Support Technician

Graduates may provide technical support to users and resolve computer-related problems.

### 3. Computer Network Technician

Graduates may install, configure, and maintain basic computer networking infrastructure.

### 4. Computer Maintenance Technician

Graduates may perform preventive maintenance and repair of computer hardware and related equipment.

### 5. Junior Programmer

Graduates may write and test basic computer programs to support user and organizational needs.

### 6. Database Support Technician

Graduates may perform basic database operations and support database maintenance.

### 7. Web Support Technician

Graduates may assist with basic web development and maintenance activities.

### 8. Information Security Support Technician

Graduates may support basic information security practices and help maintain secure computing systems.

### 9. Computer Installation Technician

Graduates may install and customize computers and related software for individuals and organizations.

### 10. ICT Field Technician

Graduates may provide on-site technical support, installation, and maintenance services in ICT-related workplaces.

## How to apply

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Apply online through the student information system at [smis.tum.ac.ke/application/register](https://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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