TECHNICAL UNIVERSITY OF MOMBASA
ISO 9001:2015 Certified

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PROGRAMME BROCHURE · CERTIFICATE

Certificate in Building and Civil Engineering

3 Semester(s) · Full Time · School of Engineering and Technology

Qualification level	Certificate
Duration	3 Semester(s)
Mode of study	Full Time
Awarded by	Technical University of Mombasa
Sponsorship	Self-Sponsored
School / institute	School of Engineering and Technology
Department	Building and Civil Engineering
Programme code	CBCE

Overview

The Certificate in Building and Civil Engineering at the Technical University of Mombasa is a three-semester programme designed to equip students with fundamental technical knowledge, practical skills and appropriate professional attitudes required in the building and civil engineering industry.

The programme provides broad-based training in building technology, civil engineering materials, workshop technology, engineering drawing, engineering surveying, quantity surveying, construction management, engineering geology and fundamental engineering principles.

Through classroom instruction, laboratory experiments, workshop practice and field-based learning, students develop competencies in the use and maintenance of construction tools and equipment, interpretation of technical drawings, measurement of construction works and application of appropriate construction techniques.

The programme emphasises practical problem-solving, safe working practices, innovation, self-reliance and entrepreneurship, preparing graduates to respond to the evolving needs of the construction industry.

Graduates are equipped to undertake technical support roles in building and civil engineering projects within the public and private sectors, pursue self-employment opportunities and progress to diploma-level studies in building, civil engineering and related disciplines.

Entry requirements

KCSE Mean Grade D+ (Plus).

What you will learn

Upon successful completion of the Certificate in Building and Civil Engineering programme, graduates will be able to:

1. Use and maintain appropriate tools and equipment required for building and civil engineering works.
2. Demonstrate a positive attitude and professional responsibility towards building and civil engineering activities in the construction industry.
3. Apply appropriate building technology principles and construction techniques in undertaking construction works on site.

4. Apply technical knowledge and practical skills in building construction and civil engineering services to promote self-reliance, entrepreneurship and income generation.
5. Demonstrate foundational knowledge and technical competencies necessary for further studies in building and civil engineering and related disciplines.

Career prospects

Graduates of the Certificate in Building and Civil Engineering programme are equipped with foundational technical knowledge and practical skills to pursue entry-level employment and self-employment opportunities in the building, construction and infrastructure development sectors.

Potential career pathways include:

- Building and Civil Engineering Technical Assistant
- Construction Site Assistant
- Engineering Survey Assistant
- Quantity Surveying Assistant
- Engineering Drawing and Drafting Assistant
- Construction Materials Testing Assistant
- Building Maintenance Assistant
- Construction Workshop Assistant
- Construction Works Assistant
- Small-scale Construction Entrepreneurship

Potential employers include:

- Building and civil engineering contractors
- Engineering consulting firms
- Government ministries, departments and agencies
- County governments
- Road construction and maintenance companies
- Water and sanitation service providers
- Real estate and property development companies
- Construction materials manufacturing companies
- Materials testing laboratories
- Building maintenance and facilities management companies

Graduates may also establish their own construction-related enterprises or pursue further studies in Diploma in Building and Civil Engineering, Diploma in Civil Engineering, Diploma in Building Technology and other related disciplines, subject to the applicable admission requirements.

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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