TECHNICAL UNIVERSITY OF MOMBASA

ISO 9001:2015 Certified

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PROGRAMME BROCHURE · DIPLOMA

Diploma in Building and Civil Engineering

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

Qualification level	Diploma
Duration	3 Year(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	DBCE

Overview

The Diploma in Building and Civil Engineering at the Technical University of Mombasa is a three-year programme designed to equip students with the theoretical knowledge, technical skills and practical competencies required in the building and civil engineering sectors.

The programme covers building technology, civil engineering construction, structural analysis and design, soil mechanics, engineering surveying, construction materials, hydraulics, hydrology, construction management, measurement of works, estimating and costing.

Through classroom instruction, laboratory experiments, workshop practice, fieldwork, industrial attachment and project work, students develop practical competencies in construction methods, interpretation of engineering drawings, materials testing, construction supervision and the application of appropriate construction technologies.

The programme emphasises technical competence, innovation, problem-solving, construction safety, entrepreneurship and the delivery of safe and stable infrastructure.

Graduates are prepared to undertake technical and supervisory responsibilities in building and civil engineering projects within the public and private sectors. The programme also provides a strong foundation for self-employment, career advancement and further studies in civil engineering, building technology and related disciplines.

Entry requirements

KCSE Mean Grade C- (Minus) with D- (Minus) in English/Kiswahili, Chemistry, Mathematics, and Physics or and other Group IV subjects.

OR

Certificate in Building and Civil Engineering or Assistant Building Technician Level 5 or equivalent.

What you will learn

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

1. Apply fundamental scientific concepts and engineering principles in the design of safe and stable building and civil engineering structures.
2. Apply technical knowledge, creative skills and positive professional attitudes in undertaking building and civil engineering projects.

3. Conduct standard laboratory and field tests, interpret test results and interpret engineering working drawings for construction purposes.
4. Apply information technology and appropriate engineering software in developing building and civil engineering designs.
5. Supervise building and civil engineering construction projects in the public and private sectors and identify opportunities for self-employment and income generation.
6. Demonstrate an appreciation of the role of building and civil engineering in infrastructure development and the improvement of societal well-being.
7. Demonstrate the technical knowledge and competencies necessary for further studies in building and civil engineering and related disciplines.

Career prospects

Graduates of the Diploma in Building and Civil Engineering programme are equipped with the technical knowledge, practical competencies and supervisory skills required to pursue diverse career opportunities in the building, construction and infrastructure development sectors.

Potential career pathways include:

- Building and Civil Engineering Technician
- Construction Site Supervisor
- Clerk of Works
- Construction Foreman
- Engineering Survey Technician
- Engineering Design and Drafting Technician
- Construction Materials Testing Technician
- Construction Estimator
- Quantity Surveying Assistant
- Construction Planning Assistant
- Quality Control Technician
- Building and Infrastructure Maintenance Technician
- Construction Contractor and Entrepreneur

Potential employers include:

- Building and civil engineering contractors
- Engineering and construction consultancy firms
- Government ministries, departments and agencies
- County governments
- Road construction and maintenance authorities
- Water and sanitation service providers
- Ports, railway and airport authorities
- Real estate and property development companies
- Construction materials manufacturing companies
- Materials testing laboratories
- Facilities management companies
- Infrastructure development organisations

Graduates may also establish their own construction-related enterprises, pursue professional registration at the appropriate level or progress to undergraduate degree programmes in civil engineering, building technology, construction management and related disciplines, subject to

the applicable admission, registration and licensing 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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