TECHNICAL UNIVERSITY OF MOMBASA
ISO 9001:2015 Certified

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PROGRAMME BROCHURE · UNDERGRADUATE

Bachelor of Science in Civil Engineering

10 Semester(s) · Full Time / Part Time · School of Engineering and Technology

Qualification level	Undergraduate
Duration	10 Semester(s)
Mode of study	Full Time / Part Time
Awarded by	Technical University of Mombasa
Sponsorship	Government-Sponsored / Self-Sponsored
School / institute	School of Engineering and Technology
Department	Building and Civil Engineering
Programme code	BSCE

Overview

The Bachelor of Science in Civil Engineering at the Technical University of Mombasa is a five-year undergraduate programme designed to equip students with the scientific knowledge, engineering principles, analytical skills and practical competencies required to plan, design, construct, operate and maintain infrastructure.

The programme provides a strong foundation in mathematics, physical sciences and engineering fundamentals, followed by comprehensive training in structural engineering, geotechnical engineering, highway and transportation engineering, water resources engineering, environmental engineering, construction materials and construction management.

Through classroom instruction, laboratory experiments, engineering design projects, fieldwork, industrial attachment and research, students develop the ability to solve complex engineering problems and provide innovative, economical and sustainable solutions to infrastructure challenges.

The programme places emphasis on engineering design, environmental sustainability, public safety, professional ethics, teamwork, communication and lifelong learning. Graduates are prepared for careers in engineering consultancy, construction, infrastructure development, government agencies, research and entrepreneurship, as well as further studies in specialised fields of civil engineering.

Entry requirements

KCSE Mean Grade C+ (Plus) with C+ (Plus) in Mathematics, English/Kiswahili, Physics and Chemistry or Physical Sciences.

OR

Kenya Advanced Certificate of Education (KACE) of at least two principal passes in mathematics and physics and a subsidiary pass.

OR

KNEC/TEP/TUM Diploma in Building and Civil Engineering or related Diploma with KCSE Mean Grade C- (Minus) with relevant C- (Minus) in cluster subjects.

OR

Higher Diploma in Building and Civil Engineering or related Higher Diploma with KCSE Mean Grade C- (Minus) with relevant C- (Minus) in cluster subjects.

What you will learn

Upon successful completion of the Bachelor of Science in Civil Engineering programme, graduates will be able to:

1. Apply knowledge of mathematics, basic sciences and engineering principles to analyse and solve civil engineering problems.
2. Model, formulate, design, develop and test civil engineering components, structures and systems.
3. Design and conduct engineering investigations and experiments, analyse data and interpret results to inform engineering decisions.
4. Demonstrate leadership, management, teamwork and effective oral and written communication skills in multidisciplinary engineering environments.
5. Demonstrate professional and ethical responsibility while considering the societal and global impacts of engineering solutions.
6. Apply principles of safety, engineering economics, professional practice and service delivery in civil engineering activities.
7. Demonstrate the knowledge, skills and professional competence necessary to pursue professional registration and membership in recognised engineering institutions.

Career prospects

Graduates of the Bachelor of Science in Civil Engineering programme are equipped with the knowledge and competencies required to pursue diverse career opportunities in the public and private sectors, both locally and internationally.

Potential career pathways include:

- Civil Engineering
- Structural Engineering
- Highway and Transportation Engineering
- Geotechnical and Foundation Engineering
- Water Resources and Hydraulic Engineering
- Environmental and Public Health Engineering
- Construction and Infrastructure Project Management
- Engineering Consultancy and Design
- Materials Testing and Quality Assurance
- Infrastructure Planning and Asset Management
- Research and Academia
- Engineering Entrepreneurship

Potential employers include:

- Engineering consulting firms
- Building and civil engineering contractors
- Government ministries, departments and agencies
- County governments
- Road and transportation authorities
- Water and sanitation service providers
- Ports, railway and airport authorities
- Real estate and infrastructure development companies
- Research institutions and universities
- International development organisations
- Non-governmental organisations

Graduates may also pursue postgraduate studies in specialised fields of civil engineering and related disciplines, as well as professional registration with the Engineers Board of Kenya (EBK), subject to the applicable registration requirements.

Fees

Bachelor of Technology in Civil Engineering · amounts in KES per semester (version 1)

	Semester 1	Semester 2	Year total
Year 1	52,000	52,000	**104,000**
Year 2	52,000	52,000	**104,000**
Year 3	52,000	52,000	**104,000**
Year 4	52,000	52,000	**104,000**
Total for the programme			**416,000**

Application fee (paid once, when you apply)	**1,500**

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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