



THE TECHNICAL UNIVERSITY OF KENYA

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Faculty:	ENGINEERING AND THE BUILT ENVIRONMENT
School:	CIVIL AND RESOURCE ENGINEERING
Department:	WATER AND ENVIRONMENTAL ENGINEERING
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EDUCATION

LEVEL	QUALIFICATION NAME	INSTITUTION	YEAR
Doctor of Philosophy (PhD)	CIVIL ENGINEERING	NATIONAL TAIWAN UNIVERSITY OF SCIENCE AND TECHNOLOGY(Taiwan)	2022
Masters of Science (M.Sc.)	CONSTRUCTION ENGINEERING	NATIONAL TAIWAN UNIVERSITY OF SCIENCE AND TECHNOLOGY(Taiwan)	2014
Bachelor of Science (BSc)	CIVIL ENGINEERING	UNIVERSITY OF NAIROBI(Kenya)	2011

WORK EXPERIENCE

PERIOD	INSTITUTION	POSITION
MAY-2018 - TO-DATE	TECHNICAL UNIVERSITY OF KENYA	LECTURER
SEPT-2018 - SEPT-2022	UNDERGROUND CONSTRUCTION LABORATORY-TAIWAN TECH	RESEARCH ASSISTANT
SEPT-2011 - SEPT-2012	MOTALENT CONSTRUCTION LIMITED	SITE ENGINEER
OCT-2015 - APRIL-2018	TECHNICAL UNIVERSITY OF KENYA	TUTORIAL FELLOW
2015 - 2015	LOBOUR LINK LTD	PROJECT OFFICER
2013 - 2014	DEEP EXCAVATIONS LABORATORY-TAIWAN TECH	RESEARCH ASSISTANT

SELECTED PUBLICATIONS

TITLE	LINK TO PUBLICATION	YEAR
Effects of Water-Binder Ratio and Aggregate Shape on Crack Evolution in Cement-Based Materials: Inclined Shear Test and DEM Simulation	View online	2023
Replacement of Conventional Sand with waste Foundry Sand in Construction Concrete.	View online	2020
Investigation of Micro Cracks Evolution in Non-Hollow and Hollow Artificial Rock Samples: Inclined Shear Test with Acoustic Emission and DEM Simulations.	View online	2023
Investigation of Micro Cracks Evolution in Artificial Rocks with Inclined Shear Tests and DEM Simulations	View online	2022
Estimation of the Residual Stress in Clay Sampled from the Field	View online	2014
DEM Simulation of Crack Evolution in Cement-Based Materials under Inclined Shear Test	View online	2021
Determination of True residual stress Within In-situ sampled Clay	View online	2014
Investigation of soil deformation characteristics of insitu soil using tube samples	View online	2014

POSTGRADUATE STUDENTS SUPERVISION

NAME	PROJECT TITLE	PERIOD
Leonardo Z. Wongbae	Performance of Expansive Soil Blended with Quarry Dust and Corncob Ash for use in Flexible Pavement Subgrade	April 2023-To-date
Aboubacar, Maman Oumarou	Effect of Crushed Plastic Wastes and Peanut Shell Ash on Physical and Mechanical Properties of Compressed Earth Blocks	April 2023 - To-date
JOHN GITAU	PERFORMANCE EVALUATION OF SOIL-CEMENT-CHICKEN-FEATHER-CHICKEN FEATHER ASH COMPOSITE FOR THE CONSTRUCTION OF AFFORDABLE HOUSING	Dec 2022-Todate
Mahamat Ahmat Mawiya	Effect of Sodium Chloride blended with Silica Fume on expansive soils for road subgrade	May 2023-Todate

COURSES TAUGHT

NAME	DESCRIPTION	PERIOD
Soil Mechanics	Soils,Foundations	10/10/2015 - TO-DATE
Theory of Structure,Structures	Structural design	2016 - TO-DATE

PROFESSIONAL AFFILIATIONS AND SOCIETIES

TITLE	INSTITUTION
Co-orporate member	Institute of Engineers of Kenya(IEK)
Professional Engineer	Engineers Board of Kenya(EBK)
Member	American Society of Civil Engineers (S.M.ASCE)