



THE TECHNICAL UNIVERSITY OF KENYA

Haile Selassie Avenue, P.O. Box 52428, Nairobi, 00200, Tel +254(020) 343672, 2249974, 2251300, 341639

Fax 2219689, Email: vc@tukenya.ac.ke, Website: www.tukenya.ac.ke

NAME: DR AWUOR OCHIENG ADERO

Faculty:	Applied Sciences and Technology
School:	PHYSICS AND EARTH SCIENCES
Department:	ASTRONOMY AND SPACE SCIENCES
Current Designation:	Lecturer, ASTRONOMY AND SPACE SCIENCE (DASS)
Office Telephone:	+254(020) 2219929, 3341639, 3343672
Official Email:	awuor.adero@tukenya.ac.ke
Consultation Hours:	8:00AM - 5:00PM MON-FRI



EDUCATION

LEVEL	QUALIFICATION NAME	INSTITUTION	YEAR
Doctor of Philosophy (PhD)	PHYSICS	THE TECHNICAL UNIVERSITY OF KENYA(Kenya)	2019
Masters of Science (M.Sc.)	PHYSICS	UNIVERSITY OF NAIROBI(Kenya)	2011
Bachelor of Science (BSc)	PHYSICS	UNIVERSITY OF NAIROBI(Kenya)	2008
Certificate	STRATEGIC MANAGEMENT AND LEADERSHIP	THE KENYA INSTITUTE OF MANAGEMENT(Kenya)	2020

WORK EXPERIENCE

PERIOD	INSTITUTION	POSITION
2011 - 2014	TUK AND MKU	PART-TIME LECTURER

SELECTED PUBLICATIONS

TITLE	LINK TO PUBLICATION	YEAR
Storm-Time Behaviour of Meso-Scale Field-Aligned Currents: Case Study with Three Geomagnetic Storm Events	View online	
Study of Response of Extreme Meso-Scale Field-Aligned Current to Interplanetary Magnetic Field Components BX, BY and BZ During Geomagnetic Storm	View online	
Features of the night-time F- region currents over equatorial Africa on August, 2001	View online	
Identification of the Night-time F-region currents from CHAMP satellite observations over equatorial Africa	View online	
M.Sc. dissertation; Identification of the Night-time F-region currents from CHAMP satellite observations over equatorial Africa	View online	
Storm-time mesoscale field-aligned currents and interplanetary parameters	View online	

COURSES TAUGHT

NAME	DESCRIPTION	PERIOD
Electrodynamics	Very fundamental in understanding the rapidly changing electric and magnetic fields	september, 2019 - TO-DATE
Space Mechanics	Vital in the understanding the motions of artificial satellites and space vehicles moving under the influence of forces such as gravity, atmospheric drag, thrust, etc	september, 2019 - TO-DATE
Geophysics	In depth application of the principles of physics to the study of the Earth. It deals with such things as the movement of the Earth's crust and the temperatures of its interior. Another subject is the behavior of the still-mysterious geomagnetic field.	september, 2019 - TO-DATE
Data Analytics	Big Data Analytics, Data Visualization using Tableau, Python, R and MATLAB	October 2014 - TO-DATE