



## Short courses

The Department offers short courses on demand in the following areas:

- Irrigation and Water Resource Management
- Renewable energy resources
- Geographic Information System (GIS)
- Remote Sensing
- Aquaculture
- Sustainable ecological sanitation (WASH)



The VC shows the Minister for Higher Education, Science and Technology some of the departments innovation.



## Contact information

### Application to be send to Principal

College of Engineering and Technology  
(COETEC)

Jomo Kenyatta University of  
Agriculture and Technology (JKUAT)  
P. o. Box 62000 City Square 00200  
Nairobi, Kenya  
principal@eng.jkuat.ac.ke

and

### For more information contact

The Chairman  
Soil, Water and Environmental Engineering  
Department (SWEED)

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P. o. Box 62000 City Square 00200  
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[www.jkuat.ac.ke/departments/sweed](http://www.jkuat.ac.ke/departments/sweed)



## Jomo Kenyatta University of Agriculture and Technology (JKUAT)

College of Engineering and Technology  
(COETEC)

## Soil, Water and Environmental Engineering Department (SWEED)

## Bachelor of Science Water and Environment Management

and

Postgraduate courses

## Introduction



The Soil, Water and Environmental Engineering Department (SWEED) was born when the former Biomechanical and Environmental Engineering Department (BEED) changed into School of Biosystem and Environmental Engineering (SoBEE) in 2015. SWEED is one of the departments under the College of Engineering and Technology (COETEC). The first batch of students graduated with Bachelor of Science in Soil, Water and Environmental Engineering in June, 2016. Since its inception, the Department has continued to improve its programmes in trend with market demands. The mission of SWEED is training, research, innovation and provision of professional services and extension in the following focal areas:

- Land and Water Resources Management
- Development of Clean energy Resources
- Environmental Engineering
- Aquaculture Technology
- Climate Change

The Department has a team of eleven full time academic staffs and three technologists



## Undergraduate courses

plus a support staff. The composition of the academic staffs are; four professors, four doctors and three masters' holder.

SWEED is well equipped with ultra-modern teaching facilities, research laboratories, workshops, and computer lab to support the scholarly activities of the students and faculty.

We offer two unique **Bachelor of Science courses**

**1. Soil, Water and Environmental Engineering programme.** However, Bsc. SWEED is being phased out as the Department prepares to start a new programme which is accredited by Engineers Board of Kenya.

**2. Water and Environment management** course, which is designed to address sustainable exploitation of our natural resources in agricultural and industrial development.

Entry Requirements

Satisfy the minimum University entry requirements and College of Engineering and Technology (COETEC) regulations.



## Postgraduate courses

Must have obtained a minimum grade C+ (plus) in each of the following subjects: Physics, Chemistry, Mathematics, and Biology or Geography OR C+ (plus) in each of the following subjects: Physical Sciences, Biological Sciences, Mathematics, and Geography or any of the Group IV subjects at K.C.S.E. or its equivalent.

Alternatively, admission shall be granted to holders of Diploma in Agricultural or Mechanical Engineering or any other relevant course (with Credit and above) from JKUAT or other institution recognized by the University Senate

Post-Graduate courses offered in SWEED are:

- Msc Environmental Engineering and Management
  - Msc Soil and Water Engineering
- Mode of Learning: (i) Full time, (ii) Part-time (Weekends).
- Intake: January, May and September. (Specify during application)
- Ph. D programmes in Soil, Water and Environmental Engineering. (intake is continuous)

A SWEED Student carrying out experiments in a hydraulics channel



SWEED students in processing workshop



A SWEED student testing biogas system

