

# MATERIAL SCIENCE AND ENGINEERING

Kenyatta University  
Department of  
Physics  
Nairobi, Kenya

By  
Mathew Munji (PhD)



Campanile



Graduate school



MAIN GATE





## VISION

Be a dynamic, an inclusive and a competitive centre of excellence in teaching, learning, research and service to humanity

## MISSION

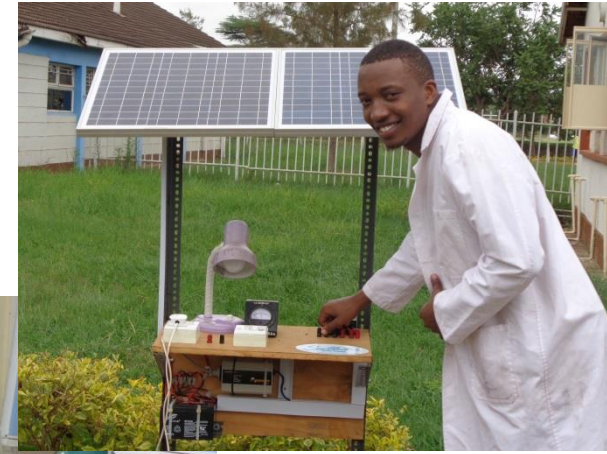
Provide quality education and training, promote scholarship, service, innovation and creativity and inculcate moral values for sustainable individual and societal development.

## INNOVATIONS

Under division of Research Innovations and Outreach (RIO)

- ❖ Flexpay
- ❖ Techlima
- ❖ Air track international
- ❖ Savika





Research areas:

Thin film research

Synthesis of nanoparticles/structures/thin films for various applications

Solar cells

Water treatment

Memory application

Gas sensing

LEDs

Energy efficient windows



Preparation of thin films using various deposition techniques

Characterization of thin films

Characterization of solar modules

Modeling various semi-conductor properties for various applications



Polymer physics research

Biodegradable materials

Characterization of mechanical, optical and electrical properties



Medical applications

# Areas of Collaboration that you are interested

## **For Partner Universities**

## **For Partner Companies**

We are looking partnerships to collaborate in the following areas:

- ✓ Students and faculty exchange program
- ✓ Visits for professional/distinguished talks and discussions
- ✓ Sharing of research ideas, research materials including use of labs
- ✓ Joint research, publications and conferences
- ✓ Placement of students during internships and research projects
- ✓ Enhancement of start-ups and innovations

## Contact information

Munji Mathew (PhD)

[munji.mathew@ku.ac.ke](mailto:munji.mathew@ku.ac.ke)

+254 72 265 3318

Office Biochem Blg sz12

Thank you

Merci beaucoup

Asante Sana

Baie Danke

Arigato