Leadership and Sustainable Energy Programme

Apply

The University of Eswatini's Centre for Sustainable Energy Research is a newly-established department that seeks to unlock Eswatini's untapped socio-economic potential in renewable energy. A partnership between UNESWA and UNDP, the Centre aims to empower women and the youth through renewable technologies and transform the lives and well-being of thousands of people while contributing to climate action. The Programme is developed to strengthen technical knowledge and skills on leadership and sustainable energy as well as entrepreneurship, to equip youth in Eswatini to start their businesses.
The selection process will be competitive, and candidates will be selected based on qualifications. This course is designed to be highly practical and interactive. It requires full and proactive engagement from the selected candidates.

If this offer aligns with your career aspirations, we look forward to welcoming you to our community.

Entry Requirements

The entry criteria for the Academy is SGCSE is a credit in, Mathematics and Physical Sciences.
This first cohort seeks to select thirty (30) candidates and shortlist others to be considered for future cohorts. Priority will be given to marginalised youth and women who have not had any further formal education beyond SGCSE.

What will be learned

This is a vocational course introducing aspects of energy through applied learning activities. It includes a discussion of climate change and sustainable living. The material on off-grid solar, PV, Solar food/medicine dehydrator and biogas digester design and construction will be taught deep enough that successful trainees can start businesses using this knowledge. The training will be hands-on to enable the trainees to get the right experience. The knowledge gained will be supplemented by entrepreneurship courses that include Leadership, Business Planning and Basic Accounts, Basic Economics and Tax Compliance for start-ups. There will be discussions of other sustainable energy technologies discussed, but at a lower depth for awareness purposes.

Responsibility

It is expected that Learners will take responsibility for their training by doing the following:

- Punctual arrival for training sessions
- Participation in ALL training sessions
- Completing all assignments
- Reading after class
- Learning to do things on your own
- Asking for assistance when they have difficulties with the course material

Performance assessment

The Course will be assessed through written examinations and practical assessments.

Course sequence, duration, and instructors

All course instructors are academically active University of Eswatini staff who hold a minimum of a Master's Degree in their respective fields. The scheduling of the course may be adjusted due to changing commitments of staff members within the University.

Table 1: Courses and their instructors and sequencing of offering.

Week	Course	Instructor	Duration (days)
	Technical Courses		
1	Basics of climate change and sustainable living	Mduduzi Mathunjwa	1
1	Solar food dehydrator	Thokozani Khumalo	2
2	Other sustainable energy technologies*	Mduduzi Mathunjwa	2
2 - 3	Biogas digester design and construction	Simiso Mkhonta	2
3 - 4	Basic electricity	Gcina Mavimbela	4
4 - 7	Off-grid solar PV	J Mahlalela / N Dlamini	9
7	Energy efficiency and conservation	Gcina Mavimbela	1
	Entrepreneurship Courses		
8	Business Leadership	Silungile Sihlongonyane	3
9	Business planning and basic accounts	Silungile Sihlongonyane	3
10	Basic economics	Differ Mthembu	3
11	Tax compliance requirements for start-up business	Zweli Mndzebele	1
11	Field trips**	Relevant instructors	2
12	Evaluation	All instructors	3
	Total number of days over 3 months		**36**

* Ethanol cook stoves, Solar water heaters, Solar cookers, Hydrogen energy, Waste to energy & Small hydropower / Small wind turbines

**The field trips will be at convenient times.

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