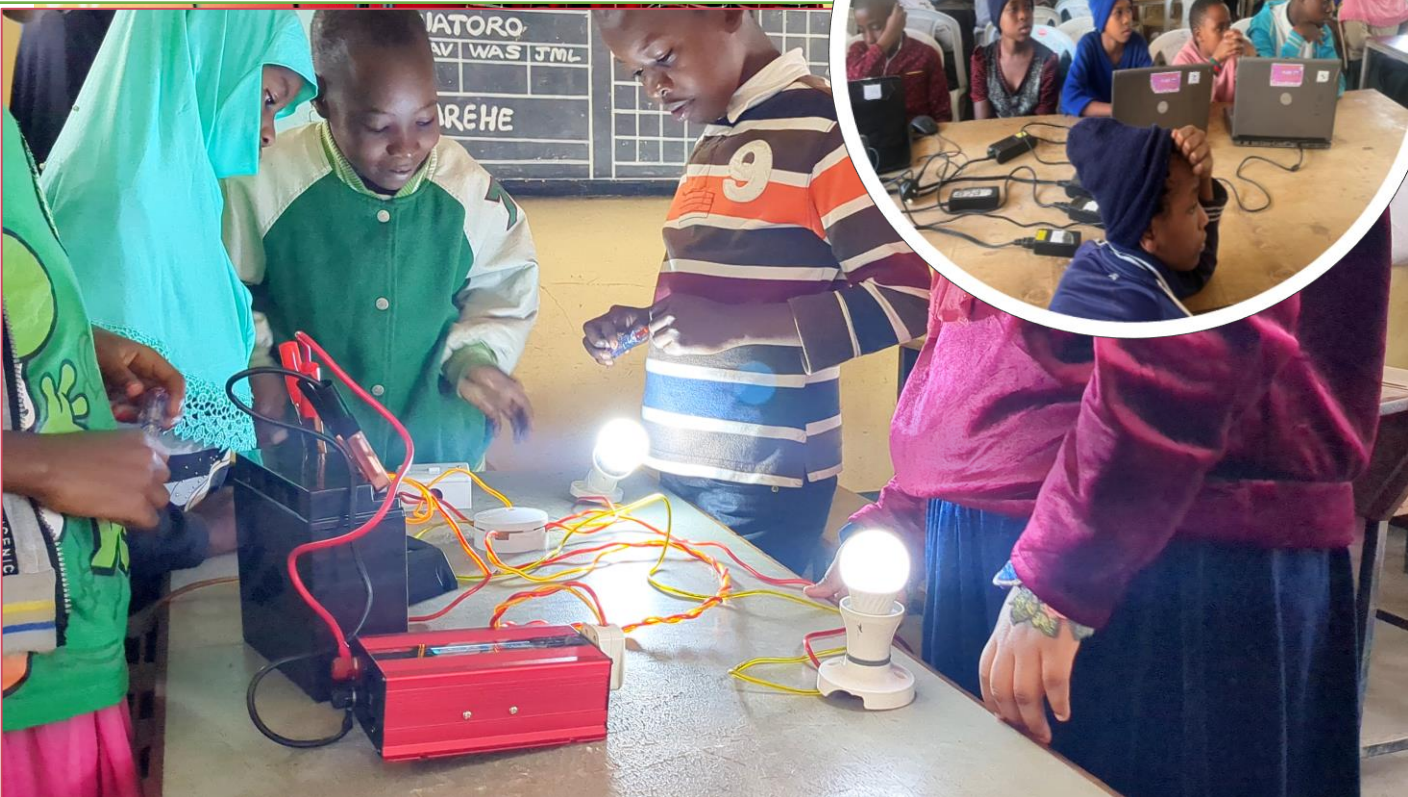


FUES NEWS

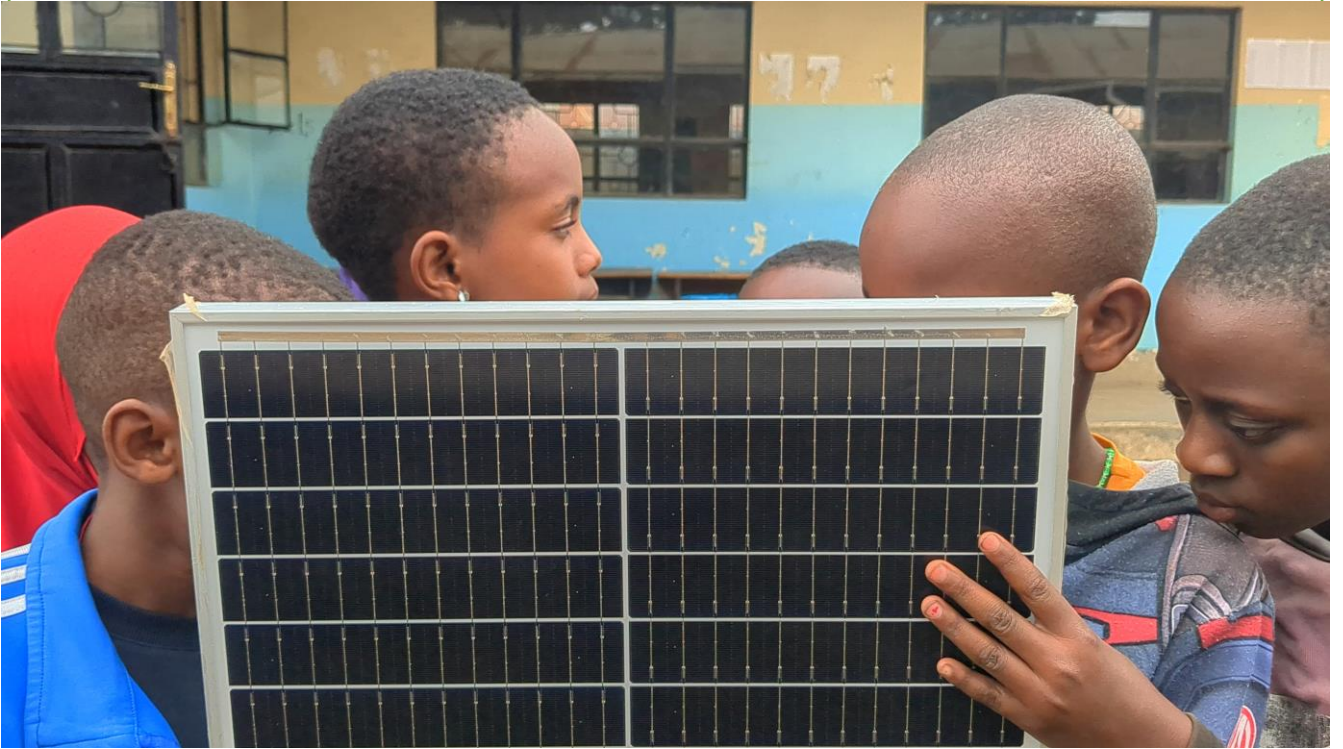


41H NORTHERN SCHOOLS MATHS COMPETITIONS 2025



INTRODUCTION

Welcome to this special edition of the FUES Magazine. In this quarter, the Foundation for Upcoming Engineers and Scientists (FUES) has continued to create transformative opportunities for children and youth through STEM-focused activities.



From competitions and bootcamps to sustainability workshops, our mission remains clear: empower the next generation to innovate, solve problems, and shape a sustainable future



HIGHLIGHTS OF THE PROGRAM

THE 4TH NORTHERN SCHOOLS MATHEMATICS COMPETITION

FUES proudly hosted the 4th Northern Schools Mathematics Competition at the **Nelson Mandela African Institution of Science and Technology**. Over **200 students** tested their **problem-solving skills, critical thinking, and teamwork**.

The event was graced by the Vice Chancellor as Guest of Honor, and parents also attended to celebrate the achievements of their children. The competition not only celebrated academic excellence but also encouraged a culture of learning, persistence, and confidence in STEM subjects.

Winners were awarded medals, trophies, and certificates, while all participants received recognition for their dedication



STEM BOOTCAMP FOR MARGINALIZED CHILDREN (AGED 10–13)

Our STEM Bootcamp took place over 5 weeks during the June holiday, engaging 153 marginalized children. Participants were awarded certificates of participation after successfully completing training sessions covering



Introduction to Computers, Microsoft Office Applications, Scratch Programming, Artificial Intelligence, Renewable Energy, and Career Counselling.

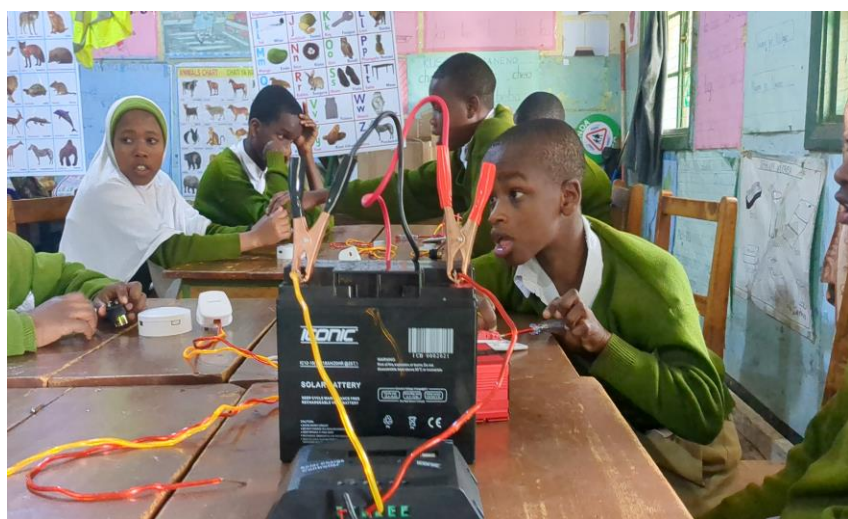
The Bootcamp ignited creativity and built self-confidence among participants, ensuring that even the most vulnerable children can dream and achieve in STEM fields.



RENEWABLE ENERGY WORKSHOP FOR STUDENTS WITH DISABILITIES



FUES conducted a **3-day Renewable Energy Workshop** tailored for 25 students with disabilities, emphasizing inclusivity in science and innovation



Day 1: Introduction to Renewable Energy

Day 2: Hands-on activities on Solar Installation

Day 3: Inspirational sessions and motivation talks

This initiative showcased that disability is not inability—every young mind has the power to contribute to a sustainable future when given equal opportunities.

RECYCLING TRAINING UNDER ECOSTEM YOUTH INNOVATION

As part of our **EcoSTEM Youth Innovation program**, students were trained on turning paper waste into energy.

This hands-on recycling training not only taught technical skills but also instilled environmental stewardship.



Participants learned how science can solve real-life community problems while reducing waste and promoting sustainability



CAREER

COUNSELLING AND GUIDANCE FOR HIGH-LEVEL STUDENTS

FUES conducted **Career Counselling and Guidance sessions for 345 high level students**, aiming to empower them with knowledge and direction for their future careers.

During the sessions, students had the opportunity to **explore and identify which careers are most suitable for their skills, interests, and passions.**

The discussions covered various STEM career paths and their relevance in solving real-world problems.



Apart from that, students engaged in an **interactive question-and-answer session** focusing on the **revolution of Artificial Intelligence (AI) and Machine Learning**, exploring how these technologies are transforming industries and creating new career opportunities.



Mentors and facilitators encouraged students to think critically about how they can contribute to technological advancement and innovation in Tanzania and beyond



VOICES FROM PARTICIPANTS



The Bootcamp helped me learn scratching, AI and renewable Energy. Now I can use computer with confidence and my dream is to become IT expert

Sharon Yasini

Participant –STEM BOOTCAMP FOR MARGINALIZED STUDENTS 2025

“I never thought math could be this fun.
Now I want to become an engineer

NOREEN MANGALE

Best mathematician Girl-2025



Now I've believed that these students with disabilities are abilities to do whatever if they will be taught in a practical way.

Sarah Makange

Head of Department

Special Need Students- Kaloleni Primary school



IMPACT SNAPSHOT

200 students
empowered through
mathematics
competitions

25 students with
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153 marginalized
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Recycling
innovation
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345 High
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STEM Career
Counselling
& Guidance