

## SOLUTIONS FOR A NEW ECONOMY

A recent study asserted that only 24% of the population in Tanzania has access to electricity of which 14% is urban areas; Solar PV is thus the most promising ruse to grow the population's lifestyle and the state's economy in general.



### About KIITEC

The institution was founded twelve year ago by Mr. Francis Brochon and Jean Pierre Acquadro (French nationals) along with other collaborating organizations. KIITEC is fully registered by the National Council for Technical Education (NACTE) since 2006.

Incorporated in our staff are Foreign experts and well trained and qualified local trainers.

The institute is also supported by Power Technics (Nairobi), Schneider Electric and Schneider Fondation (France).



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# Empowering the youth through technical education!

**KIITEC** awards three year technical diploma (NTA-6) to successful graduates in electronics and telecommunications with the following majors:

- ✓ Industrial Automation
- ✓ Computer engineering and networking
- ✓ Telecommunications engineering

Assessment is based on assignments, practical and theory (60%). Semester exams account for the remaining 40%; while students are required to score a minimum of 60% in order to pass each course module.

Moreover students undertake practical training in their respective fields, in different companies in Tanzania and East Africa as a whole

Apart from diploma courses, KIITEC also offers certificate and professional programs in the following fields:

- ✓ CCNA
- ✓ MPL's & Converged networks
- ✓ IT Support & Networking (including CCNA)
- ✓ IT & Security systems
- ✓ Network security (VPNs)
- ✓ PLCs and Variable Speed Drives (VSDs)
- ✓ HMI (Human Machine Interface)
- ✓ Industrial Networks
- ✓ Basic solar PV systems
- ✓ Solar PV systems design and installation ■





## This Semester at KIITEC

- It's with pleasure that we have received our new diploma students this semester, two classes at that (double intake); and we look forward to having a propitious journey with them and eventually cater for their success and combat the deficiency of capable technicians.
- It has been hectic to be with them as they mark their way in their new environment and adapt to a new lifestyle; and when they're all excited and satisfied to cope with it, then we know that all is good here.
- With a broad smile, we sent the contractor away upon the completion of our new classroom and if we weren't too happy to have the new modern classroom and toilets, then we were happy to get rid of all the noise and construction dust....oh, and the work done, was nothing but excellent.
- Another gracious visit from Francis Brochon ( FTE) and Jean Pierre (ADEI) was too encouraging for words. Looking forward ecstatically to their next visit.

## Second year projects

The best project this year was done by **Edward Ernest** together with **Mukama L Charles**.

The duo put tremendous effort to design their own **Solar Power Display With Voice Control** which featured the monitoring of voltage, current, power, sun peak and duty cycle with the aid of microcontroller and voice module.



While the best project might have the best grades, leave it to **Praygod Robert**, to make sure you have a **digital audio player** at hand, because, you just cannot live without music!!

And while we are at it, **Safinael Fidelis** and **Elisifa Mosses** took living in comfort to a whole new level with a **full home automation** project which basically means that everything is regulated by a control panel.

Finally! You don't have to get out of bed to turn off the kitchen lights; oh, and you don't have to be home to close the curtains either!!





## OUR JOURNEY TO A SOLAR RUN INSTITUTION

From 2006 KIITEC had been running on off-grid electricity until around 2010 when we installed a 2.8KWp solar system which currently runs security lights and our server.

While the system was a huge milestone, our goal was yet to be reached. With an eye to this, the construction of a potent control room was put to task while the batteries, charger controllers and inverters were being wired to create the desired output power of 30KWp which is expected to run the entire institution.

Happening now at KIITEC



Solar PV System for Designers and Installers (beginner's course), Scheduled to run for three weeks from 24<sup>th</sup> October, this year.



In addition, the Domestic Electrical & Solar PV System Installation Course which is a 4-month course is currently running with 15 students and will end in January 2017

Note: This short course which was initially sponsored by Schneider Electric (France) has proved to be very popular



New washrooms on our play grounds





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*Empowering the youth !!*