UNIVERSITY OF NAIROBI

CHIROMO CAMPUS

DEPARTMENT OF PHYSICS

SOLAR ACADEMY: APRI/JUNE, 2021

SHORT PROFESSIONAL COURSE IN SOLAR PV SYSTEMS DESIGN, SIZING, INSTALLATION & MAINTENANCE

The Department of Physics in conjunction with Solar Energy Research Group invites applications for **T1 &T2 and T3** training in solar photovoltaic design, installation, maintenance and commissioning for the mid-year 2021 training.

T1 &T2 SCOPE

The training will cover among others: • Basics of solar PV electricity, • Solar PV components (panels, batteries, charge controllers, inverters), • Solar PV appliances (lights, refrigerators, tv, radio, water pumping), • Site survey and solar system sizing, • Installation and maintenance, • Entrepreneurship in Solar PV applications

T3 SCOPE

The training will cover: System design. • PV plant performance. • PV array & Inverter matching • System protection and safety • DC and AC cable design • Site assessment & planning for commercial rooftop & MW scale PV power projects • Array layout design preparation • Loss, Energy Yield & Performance Ratio estimation, Financial Analysis & Project Bankability, • Solar PV Design for Commercial rooftop and MW PV plants using Design Software , System monitoring and evaluation

TRAINING METHODS

The training will involve online presentations (for all groups-T1 & T2, T3) and practicals (for T1 & T2) at the Department of Physics, Chiromo Campus, University of Nairobi. T3 trainees will have a site visit if it will be practically possible.

TARGET GROUPS

T1, T2 Course: The training is ideal for groups or individuals from government, public or private institutions, electrical installation, technicians, teachers, technical institute tutors, NGO's outreach personnel & solar PV retailers.

T3-Advanced Design Course: The training targets PV engineers, Project Managers, Solar EPC Contractors, Solar Industry professionals, PV system designers or anyone else involved with designing/ implementing grid connected PV systems.

DURATION AND COST

The T1& T2 training will run **from19th April, 2021-28th April 2021** full time, 8 am-5 pm and will comprise of 4-5 days of presentations and 2-3 days of practicals. The Cost is KShs.35,000/- per person for Kenyans or USD 450 for non-Kenyans. Participants are expected to arrange for their own accommodation near the training venue as well as health cover during the practical period.

The T3 training will be from **17th May, 2021 - 21st May 2021 full time, 8 am-5 pm.** There will be 4-5 days of presentations and a one day visit to an installation if possible. The Cost for the training is KShs.40,000/- per person for Kenyans or USD 500 for non-Kenyans.

HOW TO APPLY:

Application forms are available online at http://physics.uonbi.ac.ke/. Anon-refundable application fee of KShs. 1000/- (or USD 20 for non Kenyans) is charged and together with the training fees are payable to **Industrial Electronics Unit (UoN), Barclays Bank Westlands Branch, Acc. No. 0731264775.** Duly completed application forms, academic & professional certificates and bank deposit slip should be returned to the Department of Physics or can also be scanned and emailed to: solaracademy2012@gmail.com **on or before 12th April, 2021 (for T1,T2 applicants)** and by **(10th May 2021) for T3 applicants**. Application can also be done using the online application link in the website. Due to the limited number of training opportunities, for each intake, invitation shall be based on first come first served basis.

For further Enquiries: Contact Chairman, Department of Physics, Chiromo Campus, Tel

020-4914119, email: physics@uonbi.ac.ke, or The training coordinator on telephone +254722838140, Email: swaita@uonbi.ac.ke

The University of Nairobi is ISO 9001:2015 certified