



UNIVERSITY OF NAIROBI  
COLLEGE OF BIOLOGICAL AND PHYSICAL SCIENCES  
SOLAR ACADEMY 2017  
(APRIL SERIES)

**SHORT PROFESSIONAL COURSES IN SOLAR PV SYSTEMS  
DESIGN, INSTALLATION & MAINTENANCE**

The Department of Physics in conjunction with Solar Energy Research Group invites applications for short courses in solar photovoltaic design, installation and maintenance which will take place at the Department of Physics, Chiromo Campus, University of Nairobi in April 2017 under the following categories:

**A: T1, T2 SOLAR PV SHORT PROFESSIONAL COURSE**

**The training will cover:** • 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

**B: ADVANCED GRID CONNECTED SOLAR PV DESIGN COURSE**

**The training will cover:** System design as per IEC 62548 standards. • 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

**TARGET GROUP**

**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.

**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. This course is also available for **evening programme (5.30pm – 8.30pm)**.

**COST & TRAINING DATES**

**T1, T2 Course: April 18 to 28, 2017, Cost: KShs.45,000/-** per person for Kenyans or USD 550 for non-Kenyans  
**Advanced Design Course: May 15 to 20, 2017, Cost: KShs.50, 000/-** per person for Kenyans or USD 600 for non-Kenyans

The cost covers tuition, training materials, lunch and teas and Participants are expected to arrange for their own accommodation near the training venue as well as health cover.

**HOWTOAPPLY:** Application forms are available online at <http://physics.uonbi.ac.ke/> or at the Department of Physics office. Anon-refundable application fee of **KShs. 1000/-** (or USD 20) is charged and together with the training fees are payable to **Industrial Electronics Unit (UoN), Barclays Bank Westlands Branch, Acc. No. 073-1264775**. duly completed forms and bank deposit slip should be returned to the Department of Physics or can also be scanned and emailed to [physics@uonbi.ac.ke](mailto:physics@uonbi.ac.ke) on or before **3<sup>rd</sup> April 2017**.

**ENQUIRIES:** Contact Chairman, Department of Physics, Chiromo Campus, Tel 020-4914119, email: [physics@uonbi.ac.ke](mailto:physics@uonbi.ac.ke), [solaracademy@uonbi.ac.ke](mailto:solaracademy@uonbi.ac.ke), website: <http://physics.uonbi.ac.ke> or Training coordinator on telephone +254722630778 or +254722838140.

The University of Nairobi is ISO 9001:2008 certified