### ../../../../../../DSC_0984.jpg

During the 5-day course, a 600W small wind turbine with 2.4m rotor diameter will be constructed from scratch using simple raw materials like wood for blades, steel for mounting frame and tail, copper wire for coils and permanent magnets cast in resin for generator. A complete wind turbine will be constructed with the active participants who will be divided into focus groups on wood working, metal working and generator fabrication activities.

The participants will be taught with wood working and metal working during the course which will generate enough hands on experience to complete a small wind turbine construction work.

Although most of the workshop is practical, aspects of off-grid renewable energy system will be covered in an introductory presentation emphasizing on different applications such as solar panels, solar pumps, wind and hydro turbines. An introduction to basic theory of small wind turbine will cover important aspects such as aerodynamics and blades, electromagnetism and generators, furling tail system, tower installation and connection to the battery bank.

The wind turbine that will be built in during the workshop is based on Hugh Piggott’s design as described in recipe book.

#### **Small wind turbines**

“Kathmandu Alternative Power and Energy Group” has been working on constructing small wind turbines since 2004 by conducting various projects utilizing locally available resources.

 PEEDA

**Course Instructor**

Mr. Kostas Lataufis

RurERG, National Technical University of Athens, Greece

**About the Instructor**

The course will be lead by Mr. Kostas Lataufis in English. He has teaching experience of more than 35 theoretical and hands on course on renewable energy, and has been installing solar, wind and hydro powered energy system since 2009. While working with Nea Guinea (a not-for-profit organization co-founded by Kostas), he has carried out several off-grid renewable energy installations in permaculture farms in Greece and in rural development projects in Central America and East Africa. Currently, he is pursuing a PhD in the NTUA.

**5 DAYS CONSTRUCTION Course**

Building a 2.4m Small Wind Turbine

Kathmandu Alternative Power & Energy group (KAPEG) and People, Energy & Environment Development Association (PEEDA) in collaboration with National Technical University of Athens (NTUA), is organizing a **5 days Small Wind Turbine Construction Course.**

There is no participation fee for the workshop. The Interested applicants just need to submit letter of intent (describing why you are interested) and simple curriculum vitae (not more than 2 pages).

Please email your details at this address by 16th October, 2017

* k.silwal@kapeg.com.np
* tapendra@peeda.net

Call for participation for

Small wind turbine construction course

October 31st to November 4th, 2017





