



Industrial Co-Teaching (ICoT) Course

On

GREEN ENERGY TECHNOLOGIES



Co-ordinator	: Dr.P.Sureshkumar
Co coordinating Department	: EEE
Supporting Industry	: Mangla Smart Energy Solutions Private Limited 69, Perumal Koil Street, Tirupur - 641 604

There is an ever increasing demand for energy in spite of the rising prices of oil & other fossil fuel / depletion of fossil fuels. Energy demand, in particular electricity production has resulted in creation of fossil fuel based power plants that let out substantial green house gas / carbon emission into the atmosphere causing climate change and global warming. The ultimate intention is ,

- *To promote the use of new and renewable sources of energy (NRSE).*
- *To promote energy conservation activities.*
- *To encourage research and development on renewable sources of energy.*

Module 1: Design of Solar Energy System for Domestic Applications

Mentor 1: Dr.V.Agalya

- Domestic Load and Appliance
- Design and selection of water heater
- Design of Solar UPS for home

Module 2: Design of Renewable Energy System for Agriculture and Industry Applications

Mentor 2: Mr.S.Krishnan

- Solar pump for agriculture
- Design of solar PV system for Industries
- Selection of suitable wind system for Industries

Module 3: Energy Planning for Smart Cities

Mentor 3: Dr.M.Muthuvinayagam

- Introduction to smart cities
- Energy demand and generation planning
- Energy transmission and distribution