

Training Course of Photovoltaic Power Conversion Systems
Course Structure

| Day | Session | Topics to be covered |
|-----|---------|--|
| 1 | 1 | Renewable energy technologies, photovoltaic systems, grid-connected, isolated and hybrid PV systems |
| | 2 | Energy estimation |
| 2 | 1 | PV cells, modules, array, characteristics curves, curve tracer, fault identification, shading issues, module mismatch, Label information |
| | 2 | Centralized and distributed PV systems, central, multi-string, string and micro inverters, DC optimizers |
| 3 | 1 | Single and three phase inverter topologies, DC-DC converters |
| | 2 | Maximum power point tracking fundamentals, algorithms, issues |
| 4 | 1 | Energy storage – battery and capacitors, charge controllers |
| | 2 | Switch gears and isolators, fuses, diodes, DC and AC cables |
| 5 | 1 | Simulation tools and their use |
| | 2 | System design using PVsyst |
| 6 | 1 | Code of practice |
| | 2 | Standards |