



2-DAYS SHORT COURSE

DESIGN AND SIMULATION OF GRID CONNECTED PHOTOVOLTAIC (GCPV) SYSTEM

USING PVSYST

08- 09
DEC
2025

UiTM-MTDC Technopreneur
Centre,
Universiti Teknologi MARA,
40450 Shah Alam, Selangor,
Malaysia.



8AM- 5PM

ABOUT COURSE

PVsystem is a popular software that is used to design, predict and optimize the energy output of a solar photovoltaic (PV) power plant. It allows the user to design, simulate, predict the energy output, analyse shadings, carry out financial analysis, probability reports and generate many types of outputs. This helps the PV designer in predicting the overall performance of the solar PV power plant.

This short course introduces the software and covers key topics from the beginner to intermediate levels.

COMPREHENSIVE COURSE INCLUDES

1. Introduction to a GCPV system
2. Setting-up design parameter
3. Setting and Meteo definitions
4. Orientation
5. Shading analysis
6. Dimensioning
7. Sizing
8. Create new components
9. Advanced simulation
10. File management
11. Simulation and reporting



DR. AHMAD MALIKI OMAR

Master Trainer:

- GCPV Design Course (PTM; KeTTHA; SEDA, Malaysia)
- OGPV Design Course (SEDA, Malaysia)
- PV Chargeman & Wireman Course (SEDA, Malaysia)
- PV Installer Course (SEDA, Malaysia)

Expertise:

- Power Electronics converters
- Microcontroller applications
- Automation using PLC
- Grid Connected Photovoltaic (GCPV) System
- Off Grid Photovoltaic (OGPV) systems

SPEAKER

LEARNING OUTCOME

- Knowledge and understanding about the software and GCPV system.
- Ability to set-up, design and execute the simulations.
- Generate proper results and understanding of their meanings.

RELEVANCE TO

- Engineer / Qualified Person
- Technician/ Chargeman / Wireman
- Contractor / Service Provider
- Project Manager/ Regulator
- Academia / Researchers

REQUIREMENT

- Own a laptop and PVsystem software V 7.0 or above.

FEE PER PARTICIPANT



RM1,500.00

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