



UNIVERSITI  
TEKNOLOGI  
MARA

Institut  
Penyelidikan Solar



## SHORT COURSE

# INTRODUCTION TO GRID CONNECTED PHOTOVOLTAIC (GCPV) SYSTEM DESIGN



## 17-18 NOV 2025

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



## 8AM- 5PM

### ABOUT COURSE

This course introduces the basics of designing Grid-Connected Photovoltaic (GCPV) systems in a simple and accessible way. Participants learn key concepts and principles for creating effective solar power systems that are connected to the grid. The course covers design fundamentals, ensuring a clear understanding of the process. Ideal for those new to solar energy, it provides a solid foundation for designing sustainable and efficient GCPV systems.

### COMPREHENSIVE COURSE INCLUDES

1. Introduction to PV Power system
2. Introduction to Grid-Connected Photovoltaic (GCPV) System
3. Design and Sizing of GCPV Systems
  - a. Dimensioning of PV Array
  - b. Matching of PV Array to Inverter
  - c. Other BOS Components and Integration
4. System Performance and Evaluation
5. Tools and Measurement
  - a. Solmetric PVA-1500V PV Analyzer & DJI Matrice 300 RTK Thermal Drone



## DR. MOHAMAD ZHAFRAN HUSSIN

### SPEAKER

- Senior Lecturer, School of Electrical Engineering, UiTM Cawangan Johor
- Industrial Attachment: Solar Power Dua Sdn Bhd. Project Delivery + O&M, 25MWac LSSPV2, Pasir Gudang
- Certificate of Proficiency: Malaysia Smart Grid Training Program, Solar Photovoltaic, GEF6, Malaysia
- Certified Person: Wind Turbine Course: Center for Wind Energy Technology (CWET), India
- Qualified Person: "Testing and Commissioning (T&C) Bagi Semua Sistem Solar Fotovoltan (PV) Di Seluruh Malaysia Dalam Skema Feed in Tariff", SUSTAINABLE ENERGY DEVELOPMENT AUTHORITY (SEDA) Malaysia
- Expert Panel, JTPS Penilaian Dokumen Standard Bidang "SOLAR PV SYSTEM" (TAHAP 2 & 3)-National Occupational Skills Standards (NOSS).

### LEARNING OUTCOME

- Grasp fundamental concepts in Grid-Connected Photovoltaic (GCPV) system design.
- Learn practical techniques for creating efficient and effective solar power systems.
- Gain the ability to design sustainable GCPV systems connected to the grid.

### RELEVANCE TO

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

## FEE PER PARTICIPANT



## RM1,500.00

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