

University of Basrah College of Engineering Department of Electrical Engineering



Syllabus Description for Renewable Energy Course

- Characteristics of PV system.
- PV models and equivalent circuits.
- Sun tracking system.
- MPP techniques.
- Shading effect of PV cells.
- Power electronics interfaces for PV systems.
- Sizing the PV panel and battery pack for stand-alone PV applications.
- Introduction to wind energy.
- Introduction to Fuel Cells.

Reference: Energy Harvesting: Solar, Wind, and Ocean Energy Conversion Systems

by Alireza Khaligh