



H-Form ECE 351

A Brief Course Description			
College	Engineering		
Department/ Program	Electrical Engineering – Renewable Energy		
Course Name	Solar PV		
Course Code	ECE 351		
Year / Level	4/8		
Credit Hours	3		
Contact Hours	Lecture: 2	Lab/Tutorial: 2	Training: 0
Language	English		
Course Type	<input type="checkbox"/> University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Program		
	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Elective		
Pre-requisites Course	ECE210/ ECE346		
Co-Requests	-		
Course Description	PV including the solar irradiation and the sunlight properties, semiconductors physics, PN junctions, PV principle of operation, PV materials, PV design, PV efficiency, limitations of PV cells, PV panel design aspects, techniques for testing PV systems and components, illustrations of solar PV systems, PV integration with electric grids, 3- hours in Lab including basics and characterization, measuring the effects of temperature, dust and light shading on the performance of the solar PV systems.		