



H-Form ECE 452

A Brief Course Description			
College	Engineering		
Department/ Program	Electrical Engineering – Electronics Engineering Program		
Course Name	Fundamentals of Photovoltaic		
Course Code	ECE 452		
Year / Level	5/9		
Credit Hours	3		
Contact Hours	Lecture: 3	Lab/Tutorial: 0	Training: 0
Language	English		
Track	<input type="checkbox"/> University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Program		
	<input type="checkbox"/> Required <input checked="" type="checkbox"/> Elective		
Pre-requisites Course	ECE 350		
Co-Requests	-		
Course Description	Fundamentals of photoelectric conversion: charge excitation, conduction, separation, and collection. Lectures cover commercial and emerging photovoltaic technologies and cross-cutting themes, including conversion efficiencies, loss mechanisms, characterization, manufacturing, systems, reliability, life-cycle analysis, risk analysis, and technology evolution in the context of markets, policies, society, and environment.		