



H-Form ECE 331

A Brief Course Description			
College	Engineering		
Department/ Program	Electrical Engineering – Electronics +Communications +Renewable Engineering		
Course Name	Electric Machines		
Course Code	ECE 331		
Year / Level	3/7		
Credit Hours	3		
Contact Hours	Lecture: 3	Lab/Tutorial: 0	Training: 0
Language	English		
Track	<input type="checkbox"/> University <input type="checkbox"/> College <input checked="" type="checkbox"/> Department <input type="checkbox"/> Program		
	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Elective		
Pre-requisites Course	ECE 211		
Co-Requests	-		
Course Description	Conventional and renewable energy sources and their environmental consequences, overview of power systems structure-generation, transmission, and distribution- and its changing landscape, review of phasors and three-phase electric circuits, fundamental principles in magnetic theory, principle and structure of transformers, principles of electromechanical energy conversion, theory and operation of induction machines, synchronous generators and motor, theory and operation of dc motor.		