



Electrical Systems II

Course Number	EET 300
Course Name	Electrical Systems II
Credit Value (Breakdown of theory and lab credits)	3T+0L
Catalog Course Description	Study basic AC electrical elements; sinusoidal sources and complex representations; impedance, phasor, analysis, complex power, three-phase circuits, and transformers. Students also will be introduced to electronic devices: diode, transistor, thyristors, rectifiers, OPAMPs and its applications. <i>Prerequisites:</i> EET 200/L. <i>Co-requisite:</i> EET 300L. (3, 3T+0L)
Student Learning Outcomes/Objectives /Competencies of the Course	<ul style="list-style-type: none"> 1. Sinusoidal sources and complex representations, impedance, and phasors. 2. Nodal/Mesh Analysis of AC circuits. 3. Complex power and power factor. 4. Three-phase circuits. 5. Transformers. 6. Diode, rectifier and regulator circuits. 7. Transistor and amplifiers. 8. Thyristors and applications. 9. OPAMPs and applications.
College-Wide Student Learning Outcomes	Critical Thought

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