# Electrical Systems II

| Course Number Course Name | EET 300  
Electrical Systems II |
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<tr>
<td>Credit Value (Breakdown of theory and lab credits)</td>
<td>3T+0L</td>
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<td>Catalog Course Description</td>
<td>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. Prerequisites: EET 200/L. Co-requisite: EET 300L. (3, 3T+0L)</td>
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| Student Learning Outcomes/Objectives /Competencies of the Course | 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 |