## Assessment Plan and Support of Program Outcomes by Technical Courses in the Major (Electronics Option)

<table>
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<tr>
<th>Program Outcomes</th>
<th>Required Courses</th>
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| 1. An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline | ENT300 Analytical Methods  
ENT301 Mechanics 1  
ENT303 Electrical Circuits Analysis I  
ENT302 Electrical Circuits Analysis II  
ENT341 Electronics  
ENT342 Advanced Circuits Analysis  
ENT343 Analog Electronics Circuits  
ENT452 Analog Electronic Sys. Design and Analysis  
ENT347 Electric Machines  
ENT345 Digital Systems  
ENT346 Microcontrollers  
ENT441 Comm. Transmission Tech  
ENT442 RF and Microwave Comm.  
ENT461 Control Systems I  
ENT462 Control Systems II  
ENT464 Electrical Design I  
ENT465 Electrical Design II |
| 2. An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline | ENT300 Analytical Methods  
ENT301 Mechanics 1  
ENT303 Electrical Circuits Analysis I  
ENT302 Electrical Circuits Analysis II  
ENT341 Electronics  
ENT342 Advanced Circuits Analysis  
ENT343 Analog Electronics Circuits  
ENT452 Analog Electronic Sys. Design and Analysis  
ENT347 Electric Machines  
ENT345 Digital Systems  
ENT346 Microcontrollers  
ENT441 Comm. Transmission Tech  
ENT442 RF and Microwave Comm.  
ENT461 Control Systems I  
ENT462 Control Systems II  
ENT464 Electrical Design I  
ENT465 Electrical Design II |
| 3. An ability to apply written, oral, and graphical communication in broadly-defined technical and non- | ENT300 Analytical Methods  
ENT301 Mechanics 1  
ENT303 Electrical Circuits Analysis I  
ENT302 Electrical Circuits Analysis II  
ENT341 Electronics  
ENT342 Advanced Circuits Analysis  
ENT343 Analog Electronics Circuits  
ENT452 Analog Electronic Sys. Design and Analysis  
ENT347 Electric Machines  
ENT345 Digital Systems  
ENT346 Microcontrollers  
ENT441 Comm. Transmission Tech  
ENT442 RF and Microwave Comm.  
ENT461 Control Systems I  
ENT462 Control Systems II  
ENT464 Electrical Design I  
ENT465 Electrical Design II |
technical environments; and an ability to identify and use appropriate technical literature

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<th>4. An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes</th>
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<td>5. An ability to function effectively as a member or leader on a technical team</td>
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Note: I – Introduction, R – Reinforcement, M – Mastery. Color-filled cells indicate that these courses are used for assessment.