

ELEC1110 - Electric Motors and Generators

Credits:	4 (2/2/0)
Description:	This course provides a fundamental understanding of electric motor and generator theory and basic skills. This course includes types, construction, operation, installation and maintenance of electric motors and generators.
Prerequisites:	• ELEC1102
Corequisites:	
Pre/Corequisites*:	
Competencies:	<ol style="list-style-type: none"> 1. Demonstrate safe work practices. 2. Describe the operational theory of a direct current machine. 3. Demonstrate the ability to properly wire a direct current machine. 4. Analyze the characteristics of various direct current machines. 5. Describe the theory of a rotating magnetic field in an alternating current machine. 6. Demonstrate the ability to properly wire an alternating current machine. 7. Describe the theory of electro-magnetic induction. 8. Analyze the various alternating current machine characteristics. 9. Describe the theory of single-phase alternating current machines. 10. Demonstrate the ability to disassemble and reassemble alternating current and direct current machines. 11. Describe the characteristics of three-phase alternating current machines. 12. Analyze the characteristics of three-phase alternating current machines.
MnTC goal areas:	None

*Can be taking as a Prerequisite or Corequisite.