

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.