

ELET B1
Basic Electronics (DC and AC)

Student Learning Outcomes	Measure	PLO	ILO	GE
1. Identify the production, characteristics, applications, and voltage change methods of Direct Current and Alternating Current.	Written Exam	PLO 1	I III	
2. Apply circuit analysis methods for DC and AC circuits containing resistive devices, capacitors, and inductors using Ohm's Law, Watt's Law, and Kirchoff's Laws.	Written Exam	PLO 1 PLO 2	I III	
3. Apply circuit analysis methods for DC and AC circuits containing resistive devices, capacitors, and inductors using Ohm's Law, Watt's Law, and Kirchoff's Laws.	Written Exam	PLO 1 PLO 2	I III	
4. Identify common component symbols, and explain the functions of common electronic components.	Written Exam	PLO 1	I III	
5. List the career opportunities in Electronics Technology, the methods for receiving training in those areas, and essential workplace skills that are needed for career success in a technical field.	Student Survey	PLO 3	I IV	

PLOs:

1. Students will demonstrate proficiency in technical skills and safety principles required for industrial employment.
2. Students will demonstrate problem solving skills used in industrial design and product development
3. Students will demonstrate a deep understanding of the core material required for transfer to a four year university degree program or for certification in the department programs.

ILOs:

- I. Think critically and evaluate sources and information for validity and usefulness.
- II. Communicate effectively in both written and oral forms.
- III. Demonstrate competency in a field of knowledge or with job-related skills.
- IV. Engage productively in all levels of society – interpersonal, community, the state and nation, and the world.