

# Engineering Program

<b>Specialization</b>	<b>Energy Technology + Electrical Installations and equipment</b>
<b>Course Number</b>	020303261
<b>Course Title</b>	<b>Drawing and reading of electrical schemes</b>
<b>Credit Hours</b>	2
<b>Theoretical Hours</b>	0
<b>Practical Hours</b>	6

### **Brief Course Description:**

Automated electrical engineering drawing using computer graphic packages. Electrical block and wiring diagrams symbols of basic elements of electrical and electronic circuits, devices and machines. Block diagram of electrical & electronic systems. Schemes reading.

#### Course Objectives:

The student should be able to;

1. Draw electric and electronic systems.
2. Read electrical blocks and wiring diagrams.

□ Detailed Course Description:

Unit Number	Unit name	Unit Content	Time Needed
1.	<b>Introduction</b>	Importance of electrical drawing and blue prints.	
2.	<b>Electrical symbols</b>	symbols of basic elements of electrical and electronic circuits, devices and machines	
3	<b>Electrical blocks and wiring diagrams</b>	Block diagram of electrical & electronic systems. Schemes reading.	
4	<b>Automated electrical engineering drawing using computer graphic packages</b>	Computer graphic packages	

---

**Evaluation Strategies:**

		Percentage	Date
1. Exams	Midterm Exam	40%	--/--/----
	Assignments	10%	
	Final Exam	50%	--/--/----

---

**Teaching Methodology:**

1. Lecture

---

**Textbook:**

Electrician's Book how to Read Electrical Drawings

**References:**