



Program and Degree: BSc in Aerospace Engineering	
Course Description	
Course Title	Laboratory of Fundamentals of electrical engineering and electronics
Prerequisites	Fundamentals of electrical engineering and electronics
The course aims	<p>Students' acquaintance with the principles of electrical engineering and electrical circuits</p> <ol style="list-style-type: none"> 1- Familiarity with the electrical systems and devices in the industry 2- Understanding the foundations of electrical and magnetic circuits in the industry 3- Familiarity with the considerations of working with electrical appliances and working safely with them
Contents	<ol style="list-style-type: none"> 1. Familiarity with measuring instruments used in electrical circuits and their operation 2. The correct method for putting up measuring instruments in electrical circuits 3. Measuring power in constant current of one and three phases, frequency measurement 4. Connection of series and parallel lamps, wiring principles 5. Work with an oscilloscope, and measure the flow characteristics with it
Duration	1 Semester (16 weeks)
Course Hours	3 hours/week
Course Type	Required