



ELEC 2241 SYLLABUS

Course Number Course Name	ELEC 2241 Power Quality and Distributed Generation
Credit Value (Breakdown of theory and lab credits)	2 (2 Theory)
Catalog Course Description	Students will learn the concept of power quality, how to assess it safely and how to collect data through practical examples. Similarly, students will learn about the applications and installation of UPS and fuel cell systems. Pre-requisites: ELEC 1150
Student Learning Outcomes/Objectives /Competencies of the Course	<p>Outcomes</p> <ul style="list-style-type: none"> • Learn how to monitor and collect power data to assess its quality • Learn how to install a UPS system • Learn how to install a Fuel Cell <p>Topics</p> <ul style="list-style-type: none"> • Why care about power quality? • The basics of power quality • Safety • Using the right tool • Monitor setup • Data collection and analysis • Practical examples • “Rules of Thumb” • Mitigation equipment • Information technology sites and critical loads • UPS – Uninterruptible power supplies • Infrastructure components • Critical UPS systems design configurations • UPS installation • Critical systems service • Fuel cell basics and applications • Fuel cell installation
College-Wide Student Learning Outcomes	<i>College Wide Student Learning Outcomes:</i> Communication Critical Thought

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