Graduate Certificate in Electric Power and Energy Systems

About the Certificate:

The Graduate Certificate in Electric Power and Energy Systems aims at preparing students and practicing engineers to address the 21st-Century challenges of the electric power and energy industry. The program requires the completion of 12 graduate credit hours, consisting of two required courses and two technical electives, with an overall average GPA of at least 3.00/4.00. Admission into the program will normally require applicants to have a Bachelor’s degree in Electrical Engineering or related field. Depending on their background, non-Electrical Engineering applicants may be asked to enroll in leveling coursework.

Admission of students to the program is administered through the UTEP Graduate School. Applicants enrolled in a Master’s degree at UTEP must be in good standing in the Graduate School, while others must meet admission requirements for non-degree students. Up to six credit hours of electric power and energy coursework may be transferable from other accredited institutions. The 12 graduate credit hours of the certificate may be transferable as credit towards graduate degree requirements at UTEP.

Certificate Requirements

Core (two of the following three courses)
- EE 5384 Control of Electric Power
- EE 5386 Design of HF Switching Power Converters
- EE 5388 Power Systems Operations and Markets

Technical Electives (two of the following courses)
- EE 5380 Energy Sustainability
- EE 5383 Smart Grid Fundamentals
- EE 5384 Control of Electric Power
- EE 5386 Design of HF Switching Power Converters
- EE 5388 Power Systems Operations and Markets
- EE 5390* Special Topics in Electric Power and Energy Systems

* Requires prior approval by the ECE Graduate Programs Coordinator.

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