

POWERLINE (PWL)

PWL-326 Electrical Distribution Systems (2)

Encourages understanding and application of overhead and underground three-phase electrical distribution system principles, applications and components. Covers selection of proper conductors, cables and transformers and the importance of distribution system protection, insulation, coordination and overvoltage protection. Provides a comprehensive understanding of the emerging Smart Grid "Intelligent Power System" integration to wind, sun and steam power generation.

Covers energy storage, advanced power electronics at the T&D distribution levels, networked control systems, automation, system optimization and real-time control. Arts & Sciences Elective Code: B

Hours per week: 1.0 lecture, 2.0 lab