M E 406: Alternative Energy Systems

MECHANICAL ENGINEERING

This course does a qualitative and quantitative survey of various alternate energy methods for power generation. It contains first-order analysis of some of the systems such as alternatives to harness wind power through wind turbines, solar-based systems - active and passive solar, flat-plate solar collectors, photovoltaic systems, biofuels, and energy from organic waste such as biomass, landfills and municipal solid waste, geothermal systems, and hydro-power. A project based on a renewable energy system is part of this course.

3 Credits

Prerequisites

- Engr 321: Thermodynamics $target.descriptions.MinimumGrade$
- Engr 323: Fluid Mechanics $target.descriptions.MinimumGrade$
- Pre-Requisite: 24 Earned Hours

Instruction Type(s)

- Lecture: Lecture for M E 406

Subject Areas

- Mechanical Engineering