EGR 235: Electronic Theory I

Studies in the theory of semiconductor diodes; bipolar and field effect transistors, including biasing; classes of amplified operation; methods of analysis and design to include Miller's theorem; hybrid parameters; and frequency effects are the focus of this course. Prerequisite: EGR 132. Three lecture hours and three laboratory hours per week. Instructional Support Fee applies.

Course Student Learning Outcomes

1. Explain different types of renewable energy sources. 2. Describe the different types of wind turbines, solar thermal, and photovoltaics. 3. Describe the process for determining the physical and economic feasibility of the renewable energy for different sites and applications. 4. Debate the pros and cons of renewable energy technologies.
Credits: 4
Program: Engineering