

EL 230 - Semiconductor Physics for Engineering

3 Credit Hours

Introduce the basic concepts of quantum mechanics and teach students to apply these concepts to a variety of physical situations. This course covers topics in modern physics including the special theory of relativity, wave properties of matter, quantum mechanics, the structure of the atom, statistical physics, molecules and solids, semiconductor theory and devices as well as nuclear physics. Topics on nanostructured materials and on nanoscale electronics will also be covered in this course.