

**EIE313 Physical Electronics(2Units) Free electron motion in static electric and magnetic fields, electronic structure of matter, conductivity in crystalline solids, theory of energy bands in insulators, semi-ion-conductors and conductors: electrons in metals and electron emissions, carriers and transport phenomena in semi conductors, characteristics of resistors, diodes, transistors, photocells and light emitting diodes. Elementary discrete devices fabrication techniques and IC technology.**

**Department of Electrical and Information Engineering**

**Covenant University**

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