

Faculty of Engineering & Technology

Solid State Physics

Information :

Course Code : EMP221	Level	: Undergraduate	Course Hours :	3.00- Hours
Department : Electrical Power Engineering				
Instructor Information :				
Title	Name			Office hours
Associate Professor	Borham Mohamed Taher El adorousy Ali eldin			1

Nada El Said Abdallah Hassan Salem

Description :

Assistant Lecturer

Semiconductor material properties: Crystal structure of solids, Introduction to quantum mechanics, Introduction to the quantum theory of solids, Semiconductor in equilibrium, Carrier transport phenomena, Non-equilibrium excess carriers in semiconductors. pn junction: Basic structure, reverse applied bias, junction breakdown, pn junction current, Generation. recombination currents, and Small-signal model of the pn junction.