

BS Physics Concentration in Condensed Matter Physics

Learning Outcomes

After successfully completing this program, students will be able to:

1. Appreciate the role of different type of bonding played in forming particular condensed matter. Know different atomic configurations of condensed matter, the concepts developed and the terminology used to describe them.
2. Know how such configurations/structures are determined and the techniques used in the process of structure determination. Know how different techniques used are connected to fundamental physics.
3. Know the underlying principle in an attempt to explain physical properties of different condensed matters, which is based on the application of fundamental physics such as thermodynamics, quantum physics, and mechanics. Appreciate the success and know the limitation.