1. **PHY314**

1.1. **PHY 314: Quantum Physics  2 Units**

Prerequisite: PHY 211

Experimental basis of quantum theory, blackbody radiation and Planks hypothesis, electron and quanta; Bohrs theory of atomic structure, deBroglie hypothesis operators postulates of Quantum mechanics, wave particle duality; the formulation of quantum mechanics in terms of state vectors and linear operators, three-dimensional spherically symmetric potentials, the theory of angular momentum and spin; identical particles and the exclusion principle method of approximation, and multi-electron atoms.