Sri Bhagawan Mahaveer Jain First Grade College

Geetha Road, Robertsonpet, Kolar Gold Fields.

STATISTICAL MECHANICS

On successful completion of course student will:

- Gain knowledge about classical and quantum statistical mechanics, including Boltzmann, Fermi-Dirac, and Bose-Einstein statistics.
- use the formalism of statistical mechanics and probability theory to derive relations between thermo dynamical quantities

- Gain knowledge and broad understanding of Statistical Mechanics, and show a critical awareness
- of the significance and importance of the topics, methods and techniques.

- Have a deep understanding of physical statistics and its relation to information theory.
- Able to solve statistical mechanics problems for simple non-interacting systems,
- Have a basic understanding of the phase transitions,
- Be able to use linear response theory and kinetic equation approach.
- Have a deep understanding of universality in second order phase transitions