Shree Swami Vivekanand Shikshan Sanstha Kolhapur,

DATTAJIRAO KADAM ARTS, SCIENCE AND COMMERCE COLLEGE, ICHALKARANJI

Course Outcomes

Thermal Physics & Statistical Mechanics-II (Paper-VII)

B.Sc. II, Sem: IV (PHYSICS)

……

This course develops concepts in classical laws of thermodynamics and their application, postulates of statistical mechanics, statistical interpretation of thermodynamics, micro canonical, canonical and grant canonical ensembles; the methods of statistical mechanics are used to develop the statistics for Bose-Einstein, Fermi-Dirac and photon gases; selected topics from low temperature physics and electrical and thermal properties of matter are discussed.

Course Outcomes:-

1. Understand how statistics of the microscopic world can be used to explain the thermal features of the macroscopic world.
2. Be able to use thermal and statistical principles in a wide range of applications.
3. Learn a variety of mathematical and computer techniques.
4. statistical physics and thermodynamics as logical consequences of the postulates of statistical mechanics
5. Apply the principles of statistical mechanics to selected problems.
6. apply techniques from statistical mechanics to a range of situations
7. Use the tools, methodologies, language and conventions of physics to test and communicate ideas and explanations.
8. Use the tools, methodologies, language and conventions of physics to test and communicate ideas and explanation.