

Sri Bhagawan Mahaveer Jain First Grade College

Geetha Road, Robertsonpet, Kolar Gold Fields.

NUCLEAR PHYSICS

On successful completion of course student will:

- Understand Nuclear Force And Nuclear Models
- Solve the semi empirical mass formula and using liquid drop model and shell model
- Understand the concept of Nuclear Decay Processes
- Study α -decay using Gamow's theory,
- Study of β -decay using Fermi's theory.
- Understand the Classification of nuclear reactions
- Understand Born approximation, stripping and pick-up reactions
- Understand the Classification of elementary Particles and their Quantum Numbers