JYOTI NIVAS COLLEGE AUTONOMOUS PROGRAMME: B.Sc SEMESTER: I - BIOTECHNOLOGY – I CELL BIOLOGY AND GENETICS

COURSE CODE: 21IBT1 NO. OF HOURS: 60

CREDITS: 4

COURSE OUTCOMES (COS):

At the end of the course student should be able to understand:

- 1. Appraise the nature of cells, structural and functional Unit of living organisms, and their intricate organization.
- 2. Compare and categorize the genetic aspect towards linkage, recombination and determination of phenotypic characters.
- 3. Explain the correlative aspect about cell cycle and its regulatory mechanism.

LEARNING OUTCOMES:

After successful completion of the course the students will be able to

- 1. Create a deeper learning on the architecture of the prokaryotic and eukaryotic cells and their internal structures including organelles in living organisms.
- 2. Evaluate the importance of various stages of cell cycle, and their regulation.
- 3. State and explain the principles of inheritance, mutation and chromosomal aberrations, linkage and crossing over.
- 4. Formulate and perform range of laboratory exercises, demonstrating the development of practical scientific skills.