



## Department of Biotechnology

### M.Sc. Biotechnology

#### PROGRAMME SPECIFIC OUTCOMES (PSOs)

On the successful completion of M.Sc. Biotechnology, the students will

**PSO 1:** acquire knowledge and nuances of applied aspects of Biotechnology – cell and molecular biology, microbial technology, genomics, proteomics, genetic engineering, advanced plant and animal sciences, computational biology, etc.

**PSO 2:** exhibit critical thinking and analytical skills on the broad spectrum of Biotechnology, so as to meet the global demands of industry and academia.

**PSO 3:** administer skill sets to use research-based knowledge including design of experiments, analysis, and interpretation of data, and synthesis of the information to provide valid conclusions.

**PSO 4:** equip themselves to read, write, and prepare scientific papers and present effectively in various forums and to tabulate and interpret the Biological data using computer software.

**PSO 5:** appraise the impact of the biological solutions/needs in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development and show commitment to professional ethics and moral values.

**PSO 6:** exhibit contemporary knowledge and skills in Biotechnology to work in the pharmaceutical and biotechnological industries and function effectively as an individual, and as a member or leader in teams, and in multidisciplinary settings.

**PSO 7:** obtain ability to think independently and develop lifelong learning skills in data collection, analysis, evaluation of the Biotechnological concepts, and apply them in real-time situations.