

The MSc programs in the School of Biosciences are designed to achieve the program outcome of developing competent personnel in applied branches of life sciences with good academic standards, skill, technical knowhow, research aptitude, scientific ethics and societal consciousness.

On completion of the MSc Biophysics program, the student will achieve the following Program Specific Outcomes

PSO1: Gain the knowledge of Biophysics through theory and practical of different areas of Biophysics and allied areas.

PSO2: Identify and differentiate working principle, instrumentation and applications of various bio-analytical techniques and bio-analytical instruments

PSO3: Recognize the importance of various biological databases, algorithms and molecular docking software's used in *Insilco* drug discovery

PSO4: Recall and differentiate absorption and emission spectra. Identify the application of each region of EM spectrum for spectroscopy also explain the techniques and underlying theory of UV- Visible, IR, NMR and Raman, AAS, XRD and mass spectroscopy

PSO5: Understand the concept of enzyme kinetics, types of enzymes and enzyme technology.

PSO6: Recall and relate the concepts of radioactivity and its applications.

PSO7: Understand the basic concept of atomic and molecular structure, thermodynamics and bioenergetics in biological systems.

PSO8: Recall structural and molecular properties of different biomolecules, various molecular interactions.

PSO9: Identify membrane structure, dynamics and membrane potential.

PSO10: Graduates from this programme will be eligible to continue research at the higher degree (PhD) level. They will be well qualified to obtain employment in research and development, in the scientific or engineering industries.

