

Department of Bioinformatics
School of Earth, Biological and Environmental Sciences
Central University of South Bihar
Syllabus of M.Sc. Bioinformatics
Session-2022-2023 onwards

Introduction

Bioinformatics is a field of interdisciplinary study at the interface of biology and information technology. As such, Bioinformatics brings together molecular biology with areas from statistics, mathematics, and computer science. Bioinformatics now entails the creation and advancement of biological databases, algorithms, computational and statistical techniques, and theory to solve formal and practical problems arising from the management and analysis of biological data. Considering the interdisciplinary nature of Bioinformatics, this master programme shall have a major component from related subjects under one umbrella.

Objectives

The core objective of the programme is to provide quality education to the graduates, who want to pursue their career in the areas of Bioinformatics and Computational Biology.

- To serve as a model point for Bioinformatics and its applications
- To provide industry interface to the students for research projects
- To build skilled manpower to solve biological problems utilizing computational approaches

Outcome

- Students completing the course can efficiently provide Bioinformatics solutions for biological research
- Learn problem-solving skills and to develop new algorithms
- Perform biological research utilizing computational approaches

Target Group and Eligibility

Bachelor's degree in Biological Sciences/ Agricultural Science/ Pharmaceutical Science/ Veterinary Science/ Medical Science/ Mathematics/ Physics/ Chemistry/ Computer Science/ Information Technology or Integrated B.Sc. Biol. with 55% marks for General/OBC (B/W) candidates and 50% marks for SC/ST/PwD-candidates from any recognized University.

Duration: Two Years (Four Semesters) – Full Time