

M. Sc. (Bioinformatics)

Bioinformatics is a new science and a new way of thinking that could potentially lead to many relevant biological discoveries. The word bioinformatics has become a very popular “buzz” word in science.

Although technology enables bioinformatics, bioinformatics is still very much about biology. Biological questions drive all bioinformatics experiments. Bioinformatics is about converting biological observations to a model that a computer will understand. Many scientists are finding that bioinformatics is an exciting new territory of scientific questioning with great potential to benefit human health and society.

Eligibility:

Bachelors degree from a recognized university in any of the following disciplines:

- ❖ -Science (Biochemistry, Botany, Biology, Biotechnology, chemistry, Environmental science, LifeScience, Physics, Mathematics, Microbiology, Statistics or Zoology)
- ❖ -Agriculture
- ❖ -Medicine
- ❖ -Pharmacy
- ❖ -Veterinary Science
- ❖ -Computer science

Selection

Entrance test and personal interview:

Admissions are strictly based on the basis of entrance test. Minimum of 50% marks in the entrance test.

Passing Standard :

Minimum 25% marks in each paper and practical and minimum 40% marks in aggregate in theory and practical separately.

Details of Syllabus:

SEMESTER I:

PAPER Code	TITLE
PSBI 101	Fundamentals of Biology
PSBI 102	Sequence analysis & taxonomy
PSBI 103	Biostatistics
PSBI 104	Programming Language & Databases

SEMESTER II:

PAPER Code	TITLE
PSBI 201	Fundamentals of Biology
PSBI 202	Sequence analysis & taxonomy
PSBI 203	Immunoinformatics
PSBI 204	Programming Language & Databases

SEMESTER III:

PAPER Code	TITLE
PSBI 301	Molecular modeling & drug designing
PSBI 302	Proteomics & Genomics
PSBI 303	Application of Bioinformatics
PSBI 304	Concepts in computing

SEMESTER IV:

PAPER Code	TITLE
PSBI 401	Molecular modeling & drug designing
PSBI 402	Proteomics & Genomics
PSBI 403	Application of Bioinformatics
PSBI 404	Concepts in computing