

**SECOND ALLIED COURSE – III (AC)
COMPUTER APPLICATIONS IN BIOLOGY**

UNIT – I

Introduction to Computers – History of Computers – its developing technology and generation of Computers – Operating Systems – Windows, Unix – Hardware, Software, disc operating systems.

UNIT – II

Working of Internet – Local area and wide area network – Types of files – HTML, TXT, PDF – Search engines and its types and applications.

UNIT – III

Introduction to informatics, bioinformatics – its history and its development – Biological database – NCBL, EMBL, DDBJ.

UNIT – IV

Chemiinformatics – its history and its development – Applications
Chemiinformatics – Drugdesigning (any cancer drug)

UNIT - V

Applications of Bioinformatics, Brief outline on Genomics, Proteomics, Patenting rights.

References:

1. Statistical methods in Biology, Norman T.J. Bailey – Cambridge Edition
2. Primer for Biostatistics, S.A. Glanty – Mc Graw Hill