

UNIVERSITY OF ALLAHABAD
CENTRE OF BIOINFORMATICS

Programme: M. Sc. Bioinformatics

Duration: 2 Years (4 Semester)

Total Credit: 89 (Semester Wise: 21 + 21 + 21 + 26 = 89)

Paper Code	Paper Name	Credit
SEMESTER – I		
BIF501	Biochemistry and Biophysics	3
BIF502	Genomics and Proteomics	3
BIF503	Mathematics and Statistics	3
BIF504	Scripting Languages for Bioinformatics	3
BIF505	Sequence Analysis and Molecular Phylogeny	3
BIF531	LAB – Biological Databases and Sequence Analysis	3
BIF532	LAB – Programming in PERL & R	3
TOTAL		21
SEMESTER – II		
BIF511	Algorithms for Bioinformatics	3
BIF512	Biological Networks and Systems Biology	3
BIF513	Biomolecular Structure, Modeling & Simulation	3
BIF514	Datamining and Warehousing of Biological Data	3
BIF515	Transcriptomics and Metabolomics	3
BIF533	LAB – Biomolecular Modeling and Simulation	3
BIF534	LAB – JAVA and MySQL	3
TOTAL		21
SEMESTER – III		
BIF521	Applied Bioinformatics	4
BIF522	Computer Aided Drug Designing (CADD)	4
BIF523	DNA Computing	4
BIF535	LAB – Chemoinformatics & CADD	3
BIF536	Mini Project (Synopsis-1+LiteratureReview-2+Final Assessment-3)	6
TOTAL		21
SEMESTER – IV		
BIF537	Major Project	26