Subjects for M.Sc. Bioinformatics

- **Semester I**

	L	P	Total/week
MBI 101 Introduction to Modern Biology	3	-	3
MBI 102 Basic Mathematics	3	-	3
MBI 103 Introduction to Computing	3	3	6
MBI104 Fundamental of Bioinformatics	3	3	6
MBI 105 Cell & Molecular Biology	3	-	3

- **Semester II**

	L	P	Total/week
MBI 201 Statistics for Bioinformatics	3	-	3
MBI 202 Data Structures & Algorithm	3	3	6
MBI 203 Introduction to Database programming for BI	3	3	6
MBI 204 Structure of Biomolecules	3	-	3
MBI 205 Fundamental of Genetics	3	-	3

- **Semester III**

	L	P	Total/Week
MBI 301 Genome Biology	3		3
MBI 302 Biological Databanks Data Mining& Security	3	3	6
MBI 303 Computational Biology	3	3	6
MBI 304 Object oriented Programming	3	3	6
MBI 305 Seminar Based Course	3		3

- **Semester IV**

	L	P	Total/Week
MBI 401 Rational Drug Design	3	3	6
MBI 402 Molecular Structure Prediction Visualization	3	3	6
MBI 403 Protein Engineering & Proteomics	3	3	6
MBI 404Genomics & Transcriptomics	3	3	6
MBI 405 Project Work			6

Advanced Post Graduate Diploma in Bioinformatics

- **Semester I**

	L	P	Total/week
PBI 101 Intro to Modern Biology/ Basic Mathematics	3	-	3
PBI 102 Statistics for Bioinformatics	3	-	3
PBI 103 Introduction to Computing	3	3	6
PBI 104 Fundamentals of Bioinformatics	3	3	6
PBI 105 Structure of Biomolecules	3	-	3
PBI 106 Genetics, Cell and Molecular Biology	3	-	3

Semester II

	L	P	Total/week
PBI 202 Data Structures & Algorithm	3	3	6
PBI 203 Biological Data Banks, Data Mining & Computational Biology	3	3	6
PBI 204 Rational Drug Design	3	-	3
PBI 205 Proteomics & Molecular Structure Prediction	3	-	3
PBI 206 Object-Oriented and DB Progr. for BI	3	3	6