

MS Bioinformatics

Semester 1

Course Code	Course Title	Credit Hours
BNB-701	Advances in Molecular Biology	3(3-0)
BNB-703	Advances in Bioinformatics	3(2-1)
BNB-705	Artificial Intelligence	3(2-1)
BNB-707	Information Retrieval and Processing	3(2-1)
	Total	12

Semester 2

Course Code	Course Title	Credit Hours
	Specialization-I	3
	Specialization-II	3
	Elective-I	3
	Elective-II	3
	Total	12

Semester 3

Course Code	Course Title	Credit Hours
BNB-728	Seminar (General)	1(0-1)
BNB-730	Thesis/Dissertation	6(0-6)
	Total	07

Semester 4

Course Code	Course Title	Credit Hours
BNB-730	Thesis/Dissertation	6(0-6)
	Total	06

Specialization Track Courses

Course Code	Course Title	Credit Hours
BNB-702	Statistical Methods for Computational Biology	3(3-0)
BNB-704	Advances in Computational Algorithms	3(2-1)
BNB-706	Advances in Software Engineering	3(1-2)
BNB-708	Research Methods in Biological Sciences	3(3-0)
BNB-710	Advances in Genomics and Proteomics	3(3-0)

Elective Courses

Course Code	Course Title	Credit Hours
BNB-732	Modern Techniques in Molecular Biology	3(2-1)
BNB-734	Metabolomics	3(3-0)
BNB-736	DNA Microarrays and Integrative Genetics	3(3-0)
BNB-738	Nanotechnology	3(3-0)