

MS BIOINFORMATICS

Year 1				Year 1			
Semester 1				Semester II			
Course Code	Course Title	Category	Credits	Course Code	Course Title	Category	Credits
BIF-711	Advanced Data Analysis in Bioinformatics	Core	3(2-1)	BIF-721	Applications of Artificial Intelligence in Bioinformatics	Core	3(2-1)
BIF-712	Advanced Research Methods in Bioinformatics	Core	3(2-1)	UHQ-721	Understanding of Holy Quran – II	General Education	1(0-1)
UHQ-711	Understanding of Holy Quran – I	General Education	1(0-1)	ANT-727	Anthropology 2 (For Non-Muslims)	General Education	1(0-1)
ANT-717	Anthropology 1 (For Non-Muslims)	General Education	1(0-1)		Elective-III	Elective	3
	Elective-I	Elective	3		Elective-IV	Elective	3
	Elective-II	Elective	3		Elective-V	Elective	3
	Semester Total		13		Semester Total		13
Year II				Year II			
Semester III				Semester IV			
BIF-731	Seminar		2(2-0)	*BIF-799	Research Work		6
	Semester Total		2		Semester Total		6
	Grand Total						34

List of Elective Courses

Course Code	Course titles	Credits
BIF-701	Programming in Bioinformatics	3(2-1)
BIF-702	Networks and Pathways	3(2-1)
BIF-703	Advanced Bioinformatics	3(3-0)
BIF-704	Genome Informatics	3(3-0)
GEN-703	Human Disease Modeling	3(3-0)
GEN-708	Advanced OMICS Studies	3(3-0)
NMD-704	Biomaterials	3(3-0)