

SCHEME OF STUDIES MS BIOINFORMATICS

w.e.f. WINTER SEMESTER 2025-2026			
Course No.	Title of Course	Credit Hours	Type
DEFECIENCY SEMESTER			
BINFO-403	INTRODUCTION TO BIOINFORMATICS	3(2-1)	Compulsory
BINFO-404	BIOINFORMATICS METHODS	3(2-1)	Compulsory
BINFO-601	BIOINFORMATICS SOFTWARE DEVELOPMENT	3(2-1)	Compulsory
BINFO-609	BIOINFORMATICS BIG DATA	3(3-0)	Compulsory
	Total Credit Hours	12	
FIRST SEMESTER			
BINFO-701	ADVANCED BIOINFORMATICS	3(2-1)	Major
BINFO-704	ADVANCED MACHINE LEARNING IN BIOINFORMATICS	3(2-1)	Major
MIS-703	EXPERT SYSTEM AND APPLIED ARTIFICIAL INTELLIGENCE	3(2-1)	Minor
BIOCHEM-700	CONCEPTS OF BIOCHEMISTRY	3(2-1)	Compulsory Minor
	Total Credit Hours	12	
SECOND SEMESTER			
BINFO-703	ADVANCED DATA MINING	3(2-1)	Major
BINFO-702	COMPUTATIONAL DRUG DESIGN	3(2-1)	Major
CS-703	ADVANCED OPERATING SYSTEMS	3(2-1)	Minor
STAT-701	EXPERIMENTAL STATISTICS	3(3-0)	Compulsory Minor
	Total Credit Hours	12	
THIRD SEMESTER			
BINFO-705	ADVANCED GENOME INFORMATICS	3(2-1)	Major
BINFO-706	ADVANCED PROTEIN INFORMATICS	3(2-1)	Major
SE-714	RESEARCH METHODS AND SCIENTIFIC WRITING	4(3-1)	Minor
BINFO-719	SPECIAL PROBLEM	1(1-0)	Major
BINFO-720	SEMINAR	1(1-0)	Major
	Total Credit Hours	12	
FOURTH SEMESTER			
	THESIS/DISSERTATION	6(0-6)	
Total Credit Hours		6	