

COURSE AT A GLANCE

SUBJECT: BIOINFORMATICS

ACADEMIC SESSION: **2025-26****First Semester-December, 2025**

Course Number	Course Title	Credit Hour	Mark Distribution	Maximum Marks
411	GENETICS AND BIOSTATISTICS	4(Theory)	20+80	100
412	FUNDAMENTALS OF COMPUTING	4(Theory)	20+80	100
413	MOLECULAR BIOLOGY-I	4(Theory)	20+80	100
414	A- PHYSICAL SCIENCE B- FOUNDATION BIOLOGY	4(Theory)	20+80	100
415	CHEMISTRY OF BIOMOLECULES	2(Theory)	100	100
416	PRACTICAL-I	2(Practical)	100	100
417	Environmental Studies and Disaster Management	2	40+60	100

Second Semester-April, 2026

Course Number	Course Title	Credit Hour	Mark Distribution	Maximum Marks
421	MOLECULAR BIOLOGY-II	4(Theory)	20+80	100
422	BIOENERGETICS AND METABOLISM	4(Theory)	20+80	100
423	PYTHON PROGRAMMING	4(Theory)	20+80	100
424	OPERATING SYSTEM AND BASIC PROGRAMMING	4(Theory)	20+80	100
425	PRACTICAL-II	2(Practical)	100	100
426	PRACTICAL-III	2(Practical)	100	100
427	Inter Disciplinary Course (IDC)	3	40+60	100

Third Semester-December, 2026

Course Number	Course Title	Credit Hour	Mark Distribution	Maximum Marks
511	RECOMBINANT DNA TECHNOLOGY, IRPS & BIOSAFETY	4(Theory)	20+80	100
512	MICROBIOLOGY & IMMUNOLOGY	4(Theory)	20+80	100
513	COMPUTATIONAL BIOLOGY	4(Theory)	20+80	100
514	DATABASE MANAGEMENT SYSTEM	4(Theory)	20+80	100
515	PRACTICAL-IV	2(Practical)	100	100
516	SEMINAR	2(Practical)	100	100
517	Entrepreneurship Development	2	40+60	100

Fourth Semester-April, 2027

Course Number	Course Title	Credit Hour	Mark Distribution	Maximum Marks
521	GENOMICS, PROTEOMICS & METABOLISM	4(Theory)	20+80	100
522	MOLECULAR MODELING & DRUG DESIGNING	4(Theory)	20+80	100
523	AI & ML IN BIOINFORMATICS	4(Theory)	20+80	100
524	A-SYSTEM BIOLOGY B- CLINICAL BIOINFORMATICS C- NGS & DATA ANALYSIS D- BIG DATA ANALYSIS	4(Theory)	100	100
525	PROJECT REPORT	2(Practical)	100	100
526	PROJECT VIVA VOCE	2(Practical)	100	100
527	MOOC	3		100

