

BSMS- Biology

SEMESTER - I (Common for all B.Tech Courses)

S.No	Course Code	Course	L	T	P	C
1	MA 101	Calculus	3	1	0	8
2	PH 101	Quantum Physics and Applications	2	1	0	6
3	CH 102	Fundamental Concepts and Applications of Chemistry	3	0	0	6
4	BB 103	Introduction to Modern biology	3	0	0	6
5	PH 113	Hands on Science Laboratory - I	0	0	3	3
6	CS 101	Computer Programming	3	0	2	8
7	HS 106	Design Thinking and Creativity	1	0	0	PP/NP
8	NO107/ NO105/ NO 106/ NO 108	NSO/NSS/NCC/NCA	0	0	2	2
First Semester Total Credits						39

Semester - II

S. No	Course Code	Course Name	L	T	P	C
1	MA 102	Linear Algebra (1st Half)	3	1	0	4
2	MA 103	Differential Equations - I (2nd Half)	3	1	0	4
3	CS 201	Data Structures and Algorithms	3	0	0	6
4	CS 211	Data Structures and Algorithms Laboratory	0	0	3	3
5	PH 102	Electricity and Magnetism	2	1	0	6
6	BB 201	Biomolecules	2	1	0	6
7	CH 203	States of Matter (2nd Half)	3	0	0	3
8	CH 201	Organic Chemistry (1st Half)	3	0	0	3
9	CH 113	Hands On Science Laboratory - II	0	0	3	3

S. No	Course Code	Course Name	L	T	P	C
1	BB 407	Molecular Biology	2	1	0	6
2	BB 608	Genomics and proteomics (1st Half)	3	0	0	3
3	BB 405	Biostatistics (2nd Half)	3	0	0	3
4	BB 412	Biology Lab II	0	0	6	6
5		Institute Elective – II	3	0	0	6
6		Program Electives				6
		Total Credits				30

Semester VI

S. No	Course Code	Course Name	L	T	P	C
1	CE 301	Environmental Studies	3	0	0	6
2		Bioinformatics Lab	0	0	3	3
3		Program Elective	2	1	0	6
4		Institute Elective – III				6
5	BB 413	Biology Lab III	0	0	6	6
		Total Credits				27

Semester VII

S. No	Course Code	Course Name	L	T	P	C
1	BB 607	Immunology	2	1	0	6
2	BB 414	Biology Lab IV	0	0	6	6
3		Program Elective	3	0	0	6
4		Institute Elective -IV	3	0	0	6
5		HSS Elective-II	3	0	0	6
		Total Credits				30

Semester VIII						
S. No	Course Code	Course Name	L	T	P	C
1		Program Elective	3	0	0	6
2		Institute Elective -V	3	0	0	6
3		Minor Project				12
		Total Credits				24
Semester IX & X						
1		Independent Project				60
		Total Credits				60
Overall Credits Required (Minimum)						321