

BSMS- Biology

SEMESTER - I

S.No	C. Code	Course	L	T	P	C
1	MA108T	Calculus	3	1	0	9
2	PH101T	Quantum Physics and Applications	2	1	0	6
3	CY101T	Fundamental Concepts and Applications of Chemistry	3	0	0	6
4	BB101T	Introduction to Modern biology	3	0	0	6
5	PH101L	Hands on Science Laboratory - I	0	0	3	3
6	CS101C	Computer Programming	3	0	3	9
7	HS101T	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						41

Semester - II

S. No	Course Code	Course Name	L	T	P	C
1	CS101T	Data Structures and Algorithms	3	0	0	6
2	BB201T	Biomolecules	2	1	0	6
3	MA109T	Linear Algebra and Differential Equations	3	1	0	9
4	PH102T	Electricity and Magnetism	2	1	0	6
5	CY203T	States of Matter	3	0	0	3
6	CH201T	Organic Chemisrty	3	0	0	3
7	CS101L	Data Structures and Algorithms Laboratory	0	0	3	3
8	PH101L	Hands on Science Laboratory - 1	0	0	3	3
9	NO107/ NO	NSO/NSS/NCC/NCA	0	0	2	2
Total Credits						41

Semester III

S. No	Course Code	Course Name	L	T	P	C
1	HS201T	Economics	3	0	0	6
2	BB401T	Basics of Cell Biology and Genetics	3	0	0	6
3	CY204T	Physical Organic and Bioorganic Chemistry (1st Half)	3	0	0	3
4	CH202T	Inorganic Chemistry (2nd Half)	3	0	0	3
5	MA401T	Introduction to Probability Theory	3	1	0	8
6	PH201T	Waves, Oscillations & Optics	2	1	0	6
7	MA102L	Mathematics Laboratory	0	0	3	3
Total Credits						35

Semester IV

S. No	Course Code	Course Name	L	T	P	C
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1	BB402T	Metabolism and Bioenergetics	2	1	0	6
2	BB403T	Biophysics (1st Half)	3	0	0	3
3	BB201L	Biology Lab I	0	0	3	3
4	BB406T	Biophysical Methods	3	0	0	3
5		Institute Elective – I	3	0	0	6
6		Program Elective-I	3	0	0	6
7		HSS Elective-I	3	0	0	6
		Total Credits				33

Semester V

S. No	Course Code	Course Name	L	T	P	C
1	BB405T	Molecular Biology	2	1	0	6
2	BB502T	Genomics and proteomics (1st Half)	3	0	0	3
3	BB501T	Biostatistics (2nd Half)	3	0	0	3
4	BB202L	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	CE301T	Environmental Studies	3	0	0	6
2	BB402L	Bioinformatics Lab	0	0	3	3
3		Program Elective	2	1	0	6
4		Institute Elective – III				6
5	BB301L	Biology Lab III	0	0	6	6
		Total Credits				27

Semester VII

S. No	Course Code	Course Name	L	T	P	C
1	BB602T	Immunology	2	1	0	6
2	BB401L	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
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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