

BSMS-Mathematics

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 Chemistry	3	0	0	3
7	CS101L	Data Structures and Algorithms Laboratory	0	0	3	3
8	PH101L	Hands on Science Laboratory-II	0	0	3	3
9	NO107/ NO105/ 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	CY202T	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
1	MA302T	Real Analysis	2	1	0	6
2	MA303T	Group Theory	2	1	0	6

3	MA107T	Advanced Linear Algebra	2	1	0	6
4		Program Elective-I				6
5		Program Elective-II				6
		Total Credits				30

Semester V

S.No	Course Code	Course Name	L	T	P	C
1	MA304T	Rings and Modules	2	1	0	6
2	MA405T	Introduction to Complex Analysis	2	1	0	6
3	MA406T	General Topology	2	1	0	6
4	MA414T	Graph Theory and Combinatorics	2	1	0	6
5		Program Elective-II				6
		Total Credits				30

Semester VI

S.No	Course Code	Course Name	L	T	P	C
1	CE301T	Environmental Studies	3	0	0	6
	MA403T	Ordinary Differential Equations	2	1	0	6
	MA602T	Measure Theory	2	1	0	6
		Program Elective-III				6
		HSS Elective-I	3	0	0	6
		Total Credits				30

Semester VII

S.No	Course Code	Course Name	L	T	P	C
1	MA412T	Numerical Analysis	2	1	0	6
2		Program Elective-IV				6
3		Program Elective-V				3
4		Institute Elective – I	2	1	0	6
5		HSS Elective-II	3	0	0	6
		Total Credits				27

Semester VIII

S.No	Course Code	Course Name	L	T	P	C
1		Program Elective-VI	2	1	0	6
2		Institute Elective – II	2	1	0	6
3		Institute Elective – III				6
4		Institute Elective – IV				6
5		Institute Elective – v				6
		Total Credits				30

Semester IX

1		Independent Project					30
Semester X							
2		Independent Project					30
		Total Credits					60
		Overall Credits Required (Minimum)					321