

BSMS-Physics

SEMESTER - I

S.No	C. Code	Course	L	T	P	C
1	MA108T	Calculus	3	1.5	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	1.5	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 Structure & Algorithms Lab	0	0	3	3
8	CH101L	Hands on Science Laboratory-II	0	0	3	3
9	NO107/ NO105/	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
1	CE301T	Environmental Studies	3	0	0	6
2	EE105T	Electronic Device (Post Mid Sem)	3	0	0	3

3	PH304T	Mathematical Physics-I	2	1	0	6
4		Program Elective-I	2	1	0	6
5		HSS Elective-I	3	0	0	6
6	PH301L	General Physics Laboratory	0	0	3	3
		Total Credits				30

Semester V

<u>S.No</u>	<u>Course Code</u>	<u>Course Name</u>	<u>L</u>	<u>T</u>	<u>P</u>	<u>C</u>
1	PH301T	Electrodynamics	2	1	0	6
2	PH302T	Classical Mechanics	2	1	0	6
3	PH303T	Quantum Mechanics - I	2	1	0	6
4	EE201T	Introduction to Analog Circuits (Post midsem)	3	0	0	3
5	EE201L	Device and Circuit Lab	0	0	3	3
6		HSS Elective-II	3	0	0	6
7	PH401L	Advanced Physics Laboratory	0	0	3	3
		ALO				
		Total Credits				33

Semester VI

<u>S.No</u>	<u>Course Code</u>	<u>Course Name</u>	<u>L</u>	<u>T</u>	<u>P</u>	<u>C</u>
1		Program Elective-II	2	1	0	6
2	PH401T	Quantum Mechanics - II	2	1	0	6
3	PH305T	Statistical Physics	2	1	0	6
4		Institute Elective – I	2	1	0	6
5		Institute Elective – II / Minor Project-I	0	0	6	6
6		ALO				
		Total Credits				30

Semester VII

<u>S.No</u>	<u>Course Code</u>	<u>Course Name</u>	<u>L</u>	<u>T</u>	<u>P</u>	<u>C</u>
1		Program Elective-III	2	1	0	6
2	PH401S	Seminar – I	0	0	3	3
3		Institute Elective – III	2	1	0	6
4		Institute Elective – VI	2	1	0	6
5		Institute Elective – V / Minor Project-II	0	0	6	6
		ALO				
		Total Credits				27

Semester VIII

<u>S.No</u>	<u>Course Code</u>	<u>Course Name</u>	<u>L</u>	<u>T</u>	<u>P</u>	<u>C</u>
1		Program Elective-IV	2	1	0	6
2		Institute Elective – VI	2	1	0	6
3		Institute Elective – VII	2	1	0	6

4		Institute Elective – VIII/ MinorProject- IV	2	1	0	6
5	PH402S	Seminar – II	0	0	3	3
		ALO				
		Total Credits				27
Semester IX & X						
		Independent Project				60
		Total Credits				60
		Overall Credits Required (Minimum)				321