

**BSMS Semester-III Course Details:**

SEMESTER-III				
S. No.	Course	Type	Credits	Total Credits
1.	Physics-III	Core Discipline Groups (CDG)	3+1=4	16
	Chemistry-III		3+1=4	
	Mathematics-III (Basic or Advanced)		4	
	Biological Sciences-III		3+1=4	
2.	EDG - Physics	Elective Discipline Groups (EDG) Select 4 credits in total from <b>List-2</b>	4	4
	EDG - Chemistry			
	EDG - Mathematics			
	EDG - Biological Sciences			
	EDG - Computer Science (R-Programming-1)			
3.	Interdisciplinary Course ( <b>List-3</b> )	Interdisciplinary Course	2	2
<b>Total Credits</b>				<b>22</b>
*It is mandatory to choose Mathematics (Advance) in order to take Mathematics as a Core subject in the Semester-V.				

**List- 2 Elective Discipline Groups (EDG) (Select 4 credits in total)**

<b>S. No.</b>	<b>Physics</b>	<b>Chemistry</b>	<b>Biology</b>	<b>Mathematics</b>	<b>Computer Science</b>	<b>Credits</b>
1	Introduction to Nanotechnology	Inorganic Materials of Industrial Importance	Bioinformatics	Riemann Integration	TBA	4 Credits each
2	Scale and Measurements					
3	Computational Physics					
4	Precision and Error analysis in Physics					
5	Physics of DNA					
6	Introduction to Complex Systems					

**List-3: Interdisciplinary Skill Enhancement Courses\***

(Choose at least one course from List-3)

S. No.	Courses	Credits
1	Molecular Diagnostics	2
2	Medical Lab Technology	2
3	Quantum Chemistry	2
4	Robotics	2
5	Cybersecurity	2
8	Introduction to Atmospheric Physics	2
9	Tools and Techniques for future studies	2
10	Physics & Astronomy in Indian Knowledge System	2
11	Physics of Earth	2
12	Life Skill Education	2
13	Physics of Devices	2
14	Green Chemistry in Organic Synthesis	2
15	Basic Principles of Food Chemistry	2
16	Nuclear and Environmental Chemistry	2