

**SBS UNIVERSITY, BALAWALA, DEHRADUN**

**SCHEME OF COURSE M.Sc. Chemistry**

<b>Type of course</b>	<b>Course code</b>	<b>Title of the Course</b>	<b>L-T-P /Week</b>	<b>No. Of Credits</b>	<b>Univer sity Exam</b>	<b>Internal assessment</b>	<b>Total</b>
<b>SEMESTER I</b>							
Core course 1	CHEM-511	Inorganic Chemistry	3-0-0	<b>3</b>	50	50	100
Core course 2	CHEM-512	Organic Chemistry	3-0-0	<b>3</b>	50	50	100
Core course 3	CHEM-513	Physical Chemistry	3-0-0	<b>3</b>	50	50	100
Core course 4	CHEM-514	Analytical Techniques-I	3-0-0	<b>3</b>	50	50	100
Core course Practical 1	CHEM-515	Laboratory- I A (Analytical and Physical Chemistry)	0-0-9	<b>3</b>	50	50	100
Core course Practical 2	CHEM-516	Laboratory- I B(Organic And Inorganic Chemistry)	0-0-9	<b>3</b>	50	50	100
Elective I		Electives Course	3-0-0	<b>3</b>	50	50	100
				<b>21</b>			

**LIST OF ELECTIVE COURSES I (Any One)**

	CHEM-517	Basic Pharma Cology	3-0-0	3	50	50	100
	CHEM-518	Forensic Pharmacy	3-0-0	3	50	50	100
	BIOC-511	Fundamental of Biochemistry	3-0-0	3	50	50	100
	CHEM-519	Basics of Drug Delivery	3-0-0	3	50	50	100
	CHEM-520	Applied Chemistry	3-0-0	3	50	50	100
<b>SEMESTER II</b>							
Core course 5	CHEM-521	Inorganic Chemistry	3-0-0	3	50	50	100
Core course 6	CHEM-522	Organic Chemistry	3-0-0	3	50	50	100
Core course 7	CHEM-523	Physical Chemistry	3-0-0	3	50	50	100
Core course 8	CHEM-524	Analytical Techniques-II	3-0-0	3	50	50	100
Core course Practical 3	CHEM-525	Laboratory- IIA (Analytical and Physical Chemistry)	0-0-9	3	50	50	100
Core course Practical 4	CHEM-526	Laboratory- II B(Organic And Inorganic Chemistry)	0-0-9	3	50	50	100

Elective II		Elective Course	3-0-0	3	50	50	100
				<b>21</b>			
<b>LIST OF ELECTIVE COURSES II (Any One)</b>							
	CHEM-527	Chemistry of Natural Products	3-0-0	3	50	50	100
	PHAR-521	Essential of Traditional Medicine	3-0-0	3	50	50	100
	CHEM-528	Cosmeticology	3-0-0	3	50	50	100
	PHAR-522	Pharmaceutical Industrial Management	3-0-0	3	50	50	100
	MATH-521	Biostatistics for Chemist	3-0-0	3	50	50	100
	CHEM-529	Industrial Waste Management	3-0-0	3	50	50	100
<b>SEMESTER III</b>							
Core course 9	CHOR-631	Natural product Chemistry	3-0-0	3	50	50	100
Core course 10	CHOR-632	Organometallic Synthesis & Reagents	3-0-0	3	50	50	100
Core course Practical 5	CHOR-633	Laboratory-III A	3-0-0	3	50	50	100

Core course Practical 6	CHOR-634	Laboratory-IIIB	0-0-9	3	50	50	100
Core course 11	CHOR-635	Project-I	0-0-3	1	50	50	100
Elective III		Elective Course I	3-0-0	3	50	50	100
Elective IV		Elective Course II	3-0-0	3	50	50	100
Self Study			0-3-0	3	50	50	100
				<b>19+3 = 22</b>			
<b>List of Elective Courses I&amp;II (Any Two)</b>							
	CHOR-636	Heterocyclic Chemistry	3-0-0	3	50	50	100
	CHEM-631	Bioorganic, Bioinorganic, Biophysical	3-0-0	3	50	50	100
	CHEM-632	Environmental Chemistry	3-0-0	3	50	50	100
<b>List of Self Study Course (Any One)</b>							
	CHEM-633	Hospital Training	0-3-0	3	50	50	100

	COMP-639	Computer for chemist	0-3-0	3	50	50	100
	CHEM-634	Industrial Training	0-3-0	3	50	50	100
<b>SEMESTER IV</b>							
Core course 12	CHOR-641	Project –II	0-0-27	6	100	100	200
Core course 13	CHEM-641	Molecular Spectroscopy	3-0-0	3	50	50	100
Core course 14	CHOR-637	Organic Synthesis and Photochemistry	3-0-0	3	50	50	100
				<b>12</b>			
<b>Total Credits = 76 (21+21+22+12)</b>							