

Scheme of Teaching

B.Sc. (HONS.) Chemistry

SEMESTER I

Sr. NO.	Subject Code	Subject	Contact Hours				Credits
			L	T	P	Total	
1	BS1MA101	Algebra	2	1	0	3	3
2	BS1MA102	Calculus	3	1	0	4	4
3	BS1PH101	Mechanics and Relativity	3	1	0	4	4
4	BS1PH102	Waves & Sound	2	1	0	3	3
5	BS1CH101	Atomic Structure and Chemical Bonding	2	1	0	3	3
6	BS1CH102	Organic Chemistry I	2	1	0	3	3
7	BS1HS101	Communication Skill	2	0	0	2	2
8	BS1CH171	Quantitative & Qualitative Analysis Lab	0	0	2	2	1
9	BS1PH171	Physics Lab I	0	0	2	2	1
Total						26	24

SEMESTER II

Sr. NO.	Subject Code	Subject	Contact Hours				Credits
			L	T	P	Total	
1	BS1MA201	Linear Algebra	3	1	0	4	4
2	BS1MA202	Ordinary Differential Equations	3	1	0	4	4
3	BS1PH201	Electricity & Magnetism	3	1	0	4	4
4	BS1PH202	Heat and thermodynamics	2	1	0	3	3
5	BS1CH201	Inorganic Chemistry	2	1	0	3	3
6	BS1CH202	Physical Chemistry I	3	1	0	4	4
7	BS1CH271	Physical chemistry Lab	2	0	0	2	1
8	BS1PH271	Physics Lab II	0	0	2	2	1
Total						26	24

SEMESTER III

Sr. NO.	Subject Code	Subject	Contact Hours				Credits
			L	T	P	Total	
1	BS1MA301	Advanced Calculus	3	1	0	4	4
2	BS1MA302	3-Dimension Geometry	3	1	0	4	4
3	BS1PH301	Optics & Laser Physics	3	1	0	4	4
4	BS1PH302	General Properties of Matter	2	1	0	3	3
5	BS1CH301	Organic Chemistry II	2	1	0	3	3
6	BS1CH302	Physical Chemistry II	3	1	0	4	4
7	BS1CH371	Chemistry Lab	2	0	0	2	1
8	BS1PH371	Physics Lab 3	0	0	2	2	1
Total						26	24

SEMESTER IV

Sr. NO.	Subject Code	Subject	Contact Hours				Credits
			L	T	P	Total	
1	BS1MA401	Partial Differential Equations	3	1	0	4	4
2	BS1MA402	Mathematical Methods	3	1	0	4	4
3	BS1PH401	Atomic & Molecular Physics	3	1	0	4	4
4	BS1PH402	Quantum Mechanics	3	1	0	4	4
5	BS1CH401	Environmental Science	2	1	0	3	3
6	BS1CH402	Industrial Chemistry I	3	1	0	4	4
7	BS1CH471	Environmental Science Lab	0	0	2	2	1
Total						25	24

SEMESTER V

Sr. NO.	Subject Code	Subject	Contact Hours				Credits
			L	T	P	Total	
1	BS1CH501	Industrial Chemistry II	3	1	0	4	4
2	BS1CH502	Medicinal Chemistry I	3	1	0	4	4
3	BS1CH503	Spectroscopy	2	1	0	3	3
4	BS1CH504	Nuclear Chemistry	2	1	0	3	3
5		Elective I	2	1	0	3	3
6	BS1CH571	Medicinal Chemistry Lab	0	0	2	2	1
7	BS1CH572	Industrial Chemistry Lab	0	0	2	2	1
Total						21	19

SEMESTER VI

Sr. NO.	Subject Code	Subject	Contact Hours				Credits
			L	T	P	Total	
1	BS1CH601	Analytical Chemistry	3	1	0	4	4
2	BS1CH602	Medicinal Chemistry II	3	1	0	4	4
3	BS1CH603	Separation Techniques	2	1	0	4	4
4	BS1CH604	Heterocycles and Vitamins	2	1	0	3	3
5		Elective II	2	1	0	3	3
6	BS1CH671	Analytical Chemistry Lab	0	0	2	2	1
Total						20	19

List of Elective I	
BS2CH501	Polymer Chemistry
BS2CH502	Organic Photochemistry
BS2CH503	Materials Chemistry
BS2CH504	Forensic Analyses
List of Elective II	
BS2CH601	Statistical Mechanics
BS2CH602	Quantum Chemistry
BS2CH603	Biochemistry
BS2CH604	Instrumental Method of Analysis