

Course Structure								
B.Sc (Hons) Chemistry -3 Year Program								
Semester	Course Code	Course Name	Teaching Scheme					Course Type (Theory/ Integrated/ Comprehensive/ Workshop)
			L	T	P	SL	Credit	
Sem I	J1UA120T	Indian Legal Systems for	1	0	0		1	Theory
Sem I	C2UF102T	Food, Nutrition and Hygiene	2	0	0		0	Workshop
Sem I	C1UB120B	Fundamentals of Chemistry	4	0	1		5	Integrated
Sem I	C1UC101B	Differential Calculus &	4	0	1		5	Integrated
Sem I	C1UD101B	Microbiology & Plant Pathology	4	0	1			Integrated
Sem I	E1UA121B	Mastering in Word & Excel	2	0	1		3	Integrated
	C1UC102C	Mathematical Physics &	4	0	1	1	6	Comprehensive
Sem I	C2UA102C	Cytology, Genetics and	4	0	1	1		Comprehensive
Total credit=20								
Semester	Course Code	Course Name	Teaching Scheme					Course Type (Theory/ Integrated/ Comprehensive/ Workshop)
			L	T	P	SL	Credit	

Sem II	C2UF220T	First Aid and Health	1	0	0		1	Theory
Sem II	C1UC201T	Matrices and Differential Equations	4	0	0		4	Theory
Sem II	C2UD201B	Archegoniates & Plant	3	0	1			Integrated
Sem II	K1UC122B	Professional Communication	1	0	2		3	Integrated
Sem II	C1UD201B	Thermal Physics & Electromagnetism	3	0	1		4	Integrated
Sem II	C2UC201B	Biochemistry and Physiology	3	0	1			Integrated
Sem II	E1UA221B	PC & Hardware	2	0	1		3	Integrated
Sem II	C1UB201C	Bioorganic and Medicinal Chemistry	3	0	1	1	5	Comprehensive
Total credit=20								
Semester	Course Code	Course Name	Teaching Scheme					Course Type (Theory/ Integrated/ Comprehensive/ Workshop)
			L	T	P	SL	Credit	
Sem III		Human values and Ethics	2	0	0	0	2	Theory
Sem III		Sociology /Economics	2	0	0	0	2	Theory
Sem III		Algebra &Mathematical Methods	4	0	0	0	4	Theory
		Flowering Plants	3	0	1	0		Integrated
Sem III		Chemical Dynamics & Equilibrium	3	0	1	0	4	Integrated

Sem III		Vocational Course	2	0	1	0	3	Integrated
Sem III		Electromagnetic Theory & Magnetism	3	0	1	1	5	Comprehensive
Sem III		Molecular Biology, Biochemistry	3	0	1	1		Comprehensive
Total credit=20								
Semester	Course Code	Course Name	Teaching Scheme					Course Type (Theory/ Integrated/ Comprehensive/ Workshop)
			L	T	P	SL	Credit	
Sem IV		AI and Applications	1	0	1		2	Integrated
Sem IV		Vocational Course	3	0	1		4	Integrated
Sem IV		Perspectives of Modern Physics	3	0	1	0	4	Integrated
		Gene Technology and Biotechnology	3	0	1	0		Integrated
Sem IV		Quantum Mechanics and Atomic Physics	3	0	1	0	4	Integrated
Sem IV		Differential Equations and Mathematical Physics	4	0	1	1	6	Comprehensive
Sem IV		Economic Botany, Environmental Botany	4	0	1	1		Comprehensive
Total Credit=20								
Group- I (BSc Degree in Chemistry and Physics)								
Semester	Course/Subject Code	Course Name	Teaching Scheme					Course Type (Theory/ Integrated/ Comprehensive/ Workshop)

			L	T	P	SL	Credit	(Theory/ Integrated/ Comprehensive/ Workshop)
Sem V		Rearrangements and Chemistry	3	0	0		3	Theory
Sem V		Classical & Statistical Mechanics	4	0	0		4	Theory
Sem V		Organic Synthesis-A	4	0	1		5	Integrated
Sem V		Quantum Mechanics & Spectroscopy	3	0	1		4	Integrated
Sem V		Vocational Course (from School)	3	0	1		4	Integrated
	Total Credit=20							
Semester	Course/Subject Code	Course Name	Teaching Scheme					Course Type(Theory/ Integrated/ Comprehensive/ Workshop)
			L	T	P	SL	Credit	
Sem VI		Vocational Course (from School)	3	0	0		3	Theory
Sem VI		Organic Synthesis-B	4	0	0		4	Theory
Sem VI		Chemical Energetics and Reaction Kinetics	3	0	0		3	Theory
Sem VI		Solid State & Nuclear Physics	3	0	0		3	Theory
Sem VI		Analog & Digital Electronics	3	0	1		4	Integrated
Sem VI		Research Project	0	0	3		3	Project
	Total credit=20							
	Total credits for B.Sc. degree [in Chemistry and Physics] =120							

	Group –II (BSc Degree with Chemistry and Mathematics)							
Semester	Course Code	Course Name	Teaching Scheme					Course Type(Theory/ Integrated/ Comprehensive/ Workshop)
			L	T	P	SL	Credit	
Sem V		Rearrangements and Chemistry	3	0	0		3	Theory
Sem V		Group and Ring Theory &	4	0	0		4	Theory
Sem V		Number Theory and Game	4	0	0		4	Theory
Sem V		Organic Synthesis-A	4	0	1		5	Integrated
Sem V		Vocational Course	3	0	1		4	Integrated
	Total Credit=20							
Semester	Course Code	Course Name	Teaching Scheme					Course Type(Theory/ Integrated/ Comprehensive/ Workshop)
			L	T	P	SL	Credit	
Sem VI		Organic Synthesis-B	4	0	0		4	Theory
Sem VI		Chemical Energetics and	3	0	0		3	Theory
Sem VI		Metric Spaces & Complex	3	0	0		3	Theory
Sem VI		Vocational Course (from	2	0	1		3	Integrated
Sem VI		Numerical Analysis &	3	0	1		4	Integrated
Sem VI		Research Project	0	0	3		3	Project

	Total credit=20								
Total credits for BSc degree [in Chemistry and Mathematics] =120									
List of Electives:									
Sl No	Name of the Electives					Course Type (Theory/ Integrated/ Comprehensive/ Workshop)			
		L	T	P	C				
1	Polymer chemistry	3	0	0	3	Theory			
2	Industrial chemistry	3	0	0	3	Theory			
3	Environmental analytical chemistry	3	0	0	3	Theory			
Vocational Courses List- Chemistry (SBAS):									
					Course Type				

Course Name	<u>L</u>	T	P	C	(Theory/ Integrated/ Comprehensive/ Workshop)				
Role of Chemistry in	3	0	0	3	Theory				
Testing of food products	2	0	1	3	Integrated				
Testing of cosmetics	3	0	0	3	Theory				
Purity testing of ornaments	3	0	0	3	Theory				
Green Methods in	3	0	1	4	Integrated				
Fuel Chemistry	3	0	1	4	Integrated				