

Course Structure

B.Sc. Mathematics (Mathematics, Chemistry, Physics) Sem-I

Sr.No	Code	Subject Name	Teaching Scheme					Examination Scheme				
			L*	T*	P*	Cr	Hrs	Theory		Practical		TOTAL
								CIE	ESE	CIE	ESE	
1	BPH0101	Physics-1	4	0	0	4	4	60	40	0	0	100
2	BCH0101	General Chemistry-I	4	0	0	4	4	60	40	0	0	100
3	BMA0101	Calculus & Coordinate Geometry	4	2	0	6	6	60	40	0	0	100
4	BPH0102	Physics Practical-I	0	1	2	2	3	0	0	60	40	100
5	BCH0102	Chemistry Practical-I	0	1	2	2	3	0	0	60	40	100
6	BEG0101	General English	2	0	0	2	2	60	40	0	0	100
7	BDM0101	Disaster Management	2	0	0	2	2	60	40	0	0	100
Total			16	4	4	22	24	300	200	120	80	700

B.Sc. Mathematics (Mathematics, Chemistry, Physics) Sem-II

SR NO	CODE	SUBJECTS	TEACHING SCHEME			CREDITS	HOURS	EXAMINATION SCHEME				TOTAL
			L	T	P			THEORY		PRACTICAL		
								CIE	ESE	CIE	ESE	
1	BPH0201	Physics - II	4	0	0	4	4	60	40	0	0	100
2	BCH0201	General Chemistry - II	4	0	0	4	4	60	40	0	0	100
3	BMA0201	Differential Equations & Matrix Algebra	4	2	0	6	6	60	40	0	0	100
4	BPH0202	Physics Practical - II	0	1	2	2	3	0	0	60	40	100
5	BCH0202	Chemistry Practical - II	0	1	2	2	3	0	0	60	40	100
6	BEG0201	Basic Communication & Presentation Skills	2	0	0	2	2	60	40	0	0	100
7	BB0407	Foundation and application of leadership	1	0	2	2	3	60	40	60	40	200
			15	4	6	22	25	300	200	180	120	800

**B.Sc. (Chemistry/Mathematics)
Semester-III**

SR NO	CODE	SUBJECTS	TEACHING SCHEME			CREDITS	HOURS	EXAMINATION SCHEME				TOTAL
			L	T	P			THEORY		PRACTICAL		
								CIE	ESE	CIE	ESE	
1	BCH0301	Inorganic and Physical Chemistry - I	4	0	0	4	4	60	40	0	0	100
2	BCH0302	Organic and Analytical Chemistry - I	4	0	0	4	4	60	40	0	0	100
3	BMA0301	Advanced Calculus - I	4	1	0	5	5	60	40	0	0	100
4	BMA0302	Linear Algebra - I	4	1	0	5	5	60	40	0	0	100
5	BMA0303	Problem Solving - I	1	0	0	1	1	60	40	0	0	100
6	BCH0303	Chemistry Practical - III	0	0	6	3	6	0	0	60	40	100
7	SS0301	Human Values & Professional Ethics	2	0	0	2	2	60	40	0	0	100
			19	2	6	24	27	300	240	60	40	700

**B.Sc. (Physics/Mathematics)
Semester-III**

SR NO	CODE	SUBJECTS	TEACHING SCHEME			CREDITS	HOURS	EXAMINATION SCHEME				TOTAL
			L	T	P			THEORY		PRACTICAL		
								CIE	ESE	CIE	ESE	
1	BPH0301	Physics - III	4	0	0	4	4	60	40	0	0	100
2	BPH0302	Physics - IV	4	0	0	4	4	60	40	0	0	100
3	BMA0301	Advanced Calculus - I	4	1	0	5	5	60	40	0	0	100
4	BMA0302	Linear Algebra - I	4	1	0	5	5	60	40	0	0	100
5	BMA0303	Problem Solving - I	1	0	0	1	1	60	40	0	0	100
6	BPH0303	Physics Practical - III	0	0	6	3	6	0	0	60	40	100
7	SS0301	Human Values & Professional Ethics	2	0	0	2	2	60	40	0	0	100
			19	2	6	24	27	300	240	60	40	700

B.Sc. (Mathematics/Chemistry)												
Semester-IV												
SR NO	CODE	SUBJECTS	TEACHING SCHEME			CREDITS	HOURS	EXAMINATION SCHEME				TOTAL
			L	T	P			THEORY		PRACTICAL		
								CIE	ESE	CIE	ESE	
1	BCH0401	Inorganic and Physical Chemistry - II	4	0	0	4	4	60	40	0	0	100
2	BCH0402	Organic and Analytical Chemistry - II	4	0	0	4	4	60	40	0	0	100
3	BMA0401	Advanced Calculus - II	4	1	0	5	5	60	40	0	0	100
4	BMA0402	Abstract Algebra - I	4	1	0	5	5	60	40	0	0	100
5	BMA0403	Problem Solving - II	1	0	0	1	1	60	40	0	0	100
6	BCH0403	Chemistry Practical - IV	0	0	6	3	6	0	0	60	40	100
7	IST0001	Indian Science and Technology	1	0	0	1	1	100	0	0	0	100
			18	2	6	23	26	400	200	60	40	700

B.Sc. (Mathematics/Physics)												
Semester-IV												
SR NO	CODE	SUBJECTS	TEACHING SCHEME			CREDITS	HOURS	EXAMINATION SCHEME				TOTAL
			L	T	P			THEORY		PRACTICAL		
								CIE	ESE	CIE	ESE	
1	BPH0401	Physics - V	4	0	0	4	4	60	40	0	0	100
2	BPH0402	Physics - VI	4	0	0	4	4	60	40	0	0	100
3	BMA0401	Advanced Calculus - II	4	1	0	5	5	60	40	0	0	100
4	BMA0402	Abstract Algebra - I	4	1	0	5	5	60	40	0	0	100
5	BMA0403	Problem Solving - II	1	0	0	1	1	60	40	0	0	100
6	BPH0403	Physics Practical - IV	0	0	6	3	6	0	0	60	40	100
7	IST0001	Indian Science and Technology	1	0	0	1	1	100	0	0	0	100
			18	2	6	23	26	400	200	60	40	700

B.Sc. (Mathematics) Semester-V												
SR NO	CODE	SUBJECTS	TEACHING SCHEME			CREDITS	HOURS	EXAMINATION SCHEME				
			L	T	P			THEORY		PRACTICAL		TOTAL
								CIE	ESE	CIE	ESE	
1	BMA0501	Linear Algebra – II	4	1	0	5	5	60	40	0	0	100
2	BMA0502	Analysis – I	4	1	0	5	5	60	40	0	0	100
3	BMA0503	Linear Programming	4	1	0	5	5	60	40	0	0	100
4	BMA0504	Number Theory	4	1	0	5	5	60	40	0	0	100
5	BMA0581	Mechanics (Elective)	4	1	0	5	5	60	40	0	0	100
	BMA0582	Combinatorics (Elective)										
			20	5	0	25	25	300	200	0	0	500

B.Sc. (Mathematics) Semester-VI												
	CODE	SUBJECTS	TEACHING SCHEME			CREDITS	HOURS	EXAMINATION SCHEME				
			L	T	P			THEORY		PRACTICAL		TOTAL
								CIE	ESE	CIE	ESE	
1	BMA0601	Analysis - II	4	1	0	5	5	60	40	0	0	100
2	BMA0602	Abstract Algebra – II	4	1	0	5	5	60	40	0	0	100
3	BMA0603	Graph Theory	4	1	0	5	5	60	40	0	0	100
4	BMA0604	Complex Variables	4	1	0	5	5	60	40	0	0	100
5	BMA0691	Numerical Analysis (Elective)	4	1	0	5	5	60	40	0	0	100
	BMA0692	Convex Analysis and Probability Theory (Elective)										
6	EN0601	Employability skills and personality Development	2	0	0	2	2	60	40	0	0	100
			22	5	0	27	27	360	240	0	0	600