

NON-CBCS I.M.Sc. CHEMISTRY COURSE STRUCTURE

1st Semester	Subject Code	Subject	L-T-P	Credits	(C)/ (B)
	IMP 1001	Physics I (General Properties of Matter and Waves & Oscillations)	3-1-0	4	C
	IMC 1001	Chemistry I	3-0-0	3	C
	IMM 1001	Mathematics I (Analytical Geometry and Calculus)	3-1-0	4	C
	CS 1302	Fundamental of Unix & C-Programming	1-0-3	3	B
	HU 1103	English	2-1-0	3	B
	IMP 1002	Physics Lab I	0-0-3	2.0	C
	IMC 1002	Chemistry Lab I	0-0-3	2.0	C
	GA 1006	Co Curricular Activity	0-0-2	1	B
		Total Credits		22	
2nd Semester	IMP 2001	Physics II (Basic Electromagnetic Theory)	3-0-0	3	C
	IMC 2001	Chemistry II	3-1-0	4	C
	IMM 2001	Mathematics II (Matrix Algebra & Complex Variables)	3-0-0	3	C
	CS 2301	Fundamental of Data Structure	3-1-0	4	B
	CH 2203	Environmental Science	3-0-0	3	B
	IMP 2002	Physics Lab II	0-0-3	2.0	C
	IMC 2002	Chemistry Lab II	0-0-3	2.0	C
	CS 2302	Data Structure Lab	0-0-3	2.0	C
	GA 1006	Co Curricular Activity	0-0-2	1.0	B
		Total Credits		24	
3rd Semester	IMP 3001	Physics III (Modern Physics)	3-0-0	3	C
	IMC 3001	Chemistry III	3-0-0	3	C
	IMM 3001	Maths III (Ordinary Differential Equations with Special Functions)	3-1-0	4	C
	CS 3101	Java Programming & Web Technology	3-0-0	3	B
	PS 3001	Biological Science	3-0-0	3	B
	IMP 3002	Physics Lab-III	0-0-3	2.0	C
	IMC 3002	Chemistry - Lab III	0-0-3	2.0	C
	CS 3102	Java Programming Lab	0-0-3	2.0	C
	GA 1006	Co Curricular Activity	0-0-2	1.0	B
		Total Credits		23	
4th Semester	IMP 4101	Physics IV (Modern Optics)	3-0-0	3	C
	IMC 4001	Chemistry IV	3-0-0	3	C
	IMM 4001	Maths IV (Integral Transform & Partial Differential Equations)	3-1-0	4	C
	MSH 1151	Value Education, Human Rights and Legislative Procedure	3-0-0	3	B
	IMP 4103	Solid State Physics	3-0-0	3	C
	IMP 4002	Physics Lab-IV	0-0-3	2.0	C
	IMC 4002	Chemistry Lab IV	0-0-3	2.0	C
	GA 1006	Co Curricular Activities	0-0-2	1	B
		Total Credits		21	
	Code	Subject	L-T-P	Credits	(C)/ (B)
	IMC5001	Physical Chemistry I	3-1-0	4	C

5 th Semester	IMC5003	Organic Chemistry I	3-1-0	4	C
	IMC5005	Organic Chemistry II	3-0-0	3	C
	IMC5007	Inorganic Chemistry I	3-0-0	3	C
	IMC5009	Inorganic Chemistry II	3-0-0	3	C
	IMC5002	Inorganic Chemistry Lab -I	0-0-3	2.0	C
	IMC5004	Organic Chemistry Lab -I	0-0-3	2.0	C
		Total Credits		21	
6 th Semester	IMC6001	Physical Chemistry II	3-0-0	3	C
	IMC6003	Physical Chemistry III	3-0-0	3	C
	IMC6005	Organic Chemistry III	3-1-0	4	C
	IMC6007	Inorganic Chemistry III	3-1-0	4	C
	MSH1143	Foreign Language (German/French..)	3-0-0	3	B
	IMC6002	Physical Chemistry Lab -I	0-0-3	2.0	C
	IMC6004	Analytical Chemistry Lab	0-0-3	2.0	C
		Total Credits		21	

	Code	Subject	L-T-P	Credits	(C)/ (B)
7 th Semester	SAC1001	Advanced Physical Chemistry	3-1-0	4	C
	SAC1003	Organic Reaction Mechanisms	3-1-0	4	C
	SAC1105	Metal Chemistry	3-0-0	3	C
	SAC 1011	Environmental Chemistry	3-0-0	3	C
	Br.	Breadth Paper	3-0-0	3	B
	SAC1002	Computational Chemistry Lab	0-0-3	2.0	C
	SAC1004	Organic Chemistry lab II	0-0-3	2.0	C
		Total Credits		21	
8 th Semester	SAC2001	Theoretical Chemistry	3-1-0	4	C
	SAC2003	Synthetic Organic Chemistry	3-0-0	3	C
	SAC2005	Advanced Analytical Techniques	3-0-0	3	C
	SAC2011	Advanced Inorganic Chemistry	3-1-0	4	C
	SAC2109	Environmental Monitoring and Control	3-0-0	3	C
	SAC2002	Inorganic Chemistry Lab II	0-0-3	2.0	C
	SAC2004	Physical chemistry Lab II	0-0-3	2.0	C
		Total Credits		21	
9 th Semester	SAC3001	Bio-Inorganic & Organometallic Chemistry	3-1-0	4	C
	SAC3005	Advanced Organic Chemistry	3-1-0	4	C
	SAC 3003	Industrial Chemistry	3-0-0	3	C
		Elective I	3-0-0	3	C
		Elective II	3-0-0	3	C
	SAC3004	Advanced Characterization Lab	0-0-3	2.0	C
SAC3002	Industrial Chemistry Lab	0-0-3	2.0	C	
		Total Credits		21	
10 th Semester	SAC4001	Thesis /Dissertation		20	
		TOTAL CREDIT		215	