



DEPARTMENT OF CHEMISTRY
UNIVERSITY OF LUCKNOW
LUCKNOW
Four Year Undergraduate Course Structure
Subject: Chemistry

	Framework	Credits
	Number of Semesters	8
	Number of credits per semester	24
	Credit Breakup	
Year 1	Semester I	
	Major Subject 1 (Chemistry) P1, P2	8
	Major Subject 2	8
	Minor Subject	4
	Co-curriculum CC1	4
	Semester II	
	Major Subject 1 (Chemistry) P3, P4	8
	Major Subject 2	8
	Minor Subject	4
	Vocational VC1(Chemistry)	4
Year 2	Semester III	
	Major Subject 1 (Chemistry) P5, P6	8
	Major Subject 2	8
	Minor Subject	4
	Co-curriculum CC2(Chemistry)	4
	Semester IV	
	Major Subject 1 (Chemistry) P7, P8	8
	Major Subject 2	8
	Minor Subject (inter/intra)	4
	Vocational VC2(Chemistry)	4
Choice will be given to student to opt in which major subject he wishes to do internship and minor project		
Year 3	Semester V	
	Major Subject 1 (Chemistry) P9, P10	8
	Major Subject 2	8
	Major Subject Elective (chemistry) P11X or P11Y	4
	Major Subject Internship for three to four weeks	4
	Semester VI	
	Major Subject 1(Chemistry) P12, P13	8
	Major Subject 2	8
	Major Subject Elective (Chemistry) P14X or P14Y	4
	Major Subject Minor Project (assignment)	4
Year 4	Semester VII	
	Major Subject 1(Chemistry) P15, P16, P17	12
	Major Subject Elective 1(chemistry) P18X or P18Y	4
	Major Subject Elective 2 (chemistry) P19X or P19Y	4
	Major Subject 1 Research Methodology	4
	Semester VIII	
	Major Subject 1 Dissertation	24



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PAPERS BEING OFFERED BY THE CHEMISTRY DEPARTMENT

Semester I				
Paper	Major Branch	Type	Credits	Total Credits
Paper 1 (P1)	Inorganic Chemistry 1	Theory	4	4
Paper 2 (P2)	Organic Chemistry 1	Theory	4	4
CC 1	Co-Curriculum	Language	4	4
Paper 2 (P1'')	Organic Chemistry 1	Minor Theory	4	4
P1'	Second major subject	Theory	4	4
P2'	second major subject	Theory	4	4
	Total Credits			24
Semester II				
Paper	Major Branch	Type	Credits	Total Credits
Paper 3 (P3)	Physical Chemistry 1	Theory	4	4
Paper 4 (P4)	Chemistry Practical 1	Practical	4	4
VC 1	Chemistry Vocational 1	Food Chemistry	4	4
Paper 3 (P2'')	Physical Chemistry 1	Minor Theory	4	4
P3'	Second major subject	Theory	4	4
P4'	second major subject	Theory	4	4
	Total Credits			24
Semester III				
Paper	Major Branch	Type	Credits	Total Credits
Paper 5 (P5)	Physical Chemistry 2	Theory	4	4
Paper 6 (P6)	Chemistry Practical 2	Practical	4	4
CC 2	Co-Curriculum	NCC/NSS/Soft skill Development	4	4
Paper 5 (P3'')	Physical Chemistry 2	Minor Theory	4	4
P5'	Second major subject	Theory	4	4
P6'	second major subject	Theory	4	4
	Total Credits			24



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Semester IV				
Paper	Major Branch	Type	Credits	Total Credits
Paper 7 (P7)	Inorganic Chemistry 2	Theory	4	4
Paper 8 (P8)	Organic Chemistry 2	Theory	4	4
VC 2	Chemistry Vocational 2	Introduction of Household Chemicals, Soaps and Detergents	4	4
Paper 7 (P4'')	Inorganic Chemistry 2	Minor Theory	4	4
P7'	Second major subject	Theory	4	4
P8'	second major subject	Theory	4	4
	Total Credits			24
Choice will be given to student to opt in which major subject he wishes to do internship and minor project				
Semester V				
Paper	Major Branch	Type	Credits	Total Credits
Paper 9	Organic Chemistry 3	Theory	4	4
Paper 10	Chemistry Practical 3	Practical	4	4
Paper 11 x	Analytical Chemistry	Chemistry Elective 1	4	4
Paper 11 y	Chemical Energetics and Radiochemistry	Chemistry Elective 2		
IS	Chemistry Internship	Theory/Practical	4	4
P9'	Second major subject	Theory	4	4
P10'	second major subject	Theory	4	4
	Total Credits			24
Semester VI				
Paper	Major Branch	Type	Credits	Total Credits
Paper 12	Inorganic Chemistry 3	Theory	4	4
Paper 13	Quantum Mechanics and Spectroscopy	Theory	4	4
Paper 14 x	Polymer Chemistry	Chemistry Elective 3	4	4
Paper 14 y	Chemistry of natural products	Chemistry Elective 4		
MP	Chemistry Minor Project	Theory/Practical	4	4



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P11'	Second major subject	Theory	4	4
P12'	second major subject	Theory	4	4
	Total Credits			24

Semester VII				
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Paper	Major Branch	Type	Credits	Total Credits
Paper 15	Inorganic/Organic/Physical Chemistry	Theory	4	4
Paper 16	Bioinorganic, Bioorganic and Biophysical Chemistry	Theory	4	4
Paper 17	Chemistry Practical 4	Practical	4	4
Paper 18 x	Supramolecular Chemistry	Chemistry Elective 5	4	4
Paper 18 y	Chemistry of Analgesics and Antipyretics	Chemistry Elective 6		
Paper 19 x	Science and Technology of Cosmetics	Chemistry Elective 7	4	4
Paper 19 y	Electrochemistry	Chemistry Elective 8		
RM	Research Methodology	Theory/Practical	4	4

Semester VIII				
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Paper	Major Branch	Type	Credits	Total Credits
Project	Major Project-Dissertation	Theory/Practical	24	24