

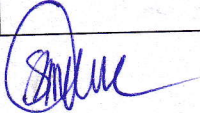
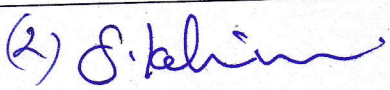
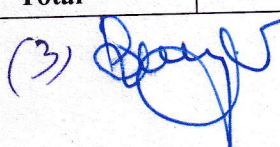
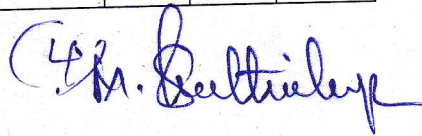
J.J. College of Arts and Science (Autonomous)

Proposed Course Structure based on TANSCH and UGC - LOCF (Choice Based Credit System)

(Applicable for the Candidates admitted from the academic year 2026-2027 Onwards)

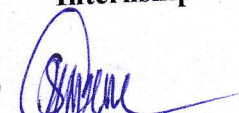
B.Sc. Chemistry

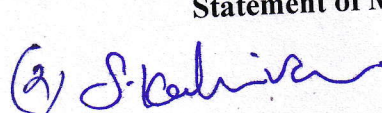
Sl. No.	Course Category	Course Code	Course	Credits	Hours/ Week	Marks		
						CIA	ESE	Total
Semester I								
1	Part - I	U1R4TL1/HL1/FL1	Language Course - I	3	6	30	70	100
2	Part - II	U1R4EL1	English Language Course - I	3	6	30	70	100
3	Part - III	U1R4CHCC1	General Chemistry-I	5	5	30	70	100
4		U1R4CHCC2P	Quantitative Inorganic Estimation (Titrimetry) and Inorganic Preparation Practical	5	5	40	60	100
5		U1R4CHAC1	Mathematics-I	3	3	30	70	100
6		U1R4CHAC2	Allied Physics-I	3	3	30	70	100
7	Part - IV	U1R4_GEC1	To be opted from other Department	2	2	30	70	100
Total				24	30	-	-	700
Semester II								
1	Part - I	U2R4TL2/HL2/FL2	Language Course-II	3	6	30	70	100
2	Part - II	U2R4EL2	English Language Course –II	3	6	30	70	100
3	Part - III	U2R4CHCC3	General Chemistry-II	5	5	30	70	100
4		U2R4CHCC4P	Qualitative Organic Analysis and Preparation of Organic compounds Practical	5	5	40	60	100
5		U2R4CHAC3	Mathematics-II	3	3	30	70	100
6		U2R4CHAC4P	Allied Physics Practical-I	3	3	40	60	100
7	Part - IV	U2R4_GEC2	To be opted from other Department	2	2	30	70	100
Total				24	30	-	-	700
Semester III								
1	Part - I	U3R4TL3/HL3/FL3	Language Course-III	3	5	30	70	100
2	Part - II	U3R4EL3	English Language Course-III	3	5	30	70	100
3	Part - III	U3R4CHCC5	General Chemistry-III	5	5	30	70	100
4		U3R4CHCC6P	Qualitative Inorganic Analysis Practical	5	5	40	60	100
5		U3R4CHAC5	Allied Physics-II	3	4	30	70	100
6	Part - IV	U3R4CHSEC1:1/1:2	Instrumental methods of Chemical analysis / Entrepreneurial Skills in Chemistry	2	2	30	70	100
7		U3R4VE	Value Education	2	2	30	70	100
8	Part - V	U3R4HW	Health and Wellness	1	2	-	-	100
Total				24	30	-	-	800

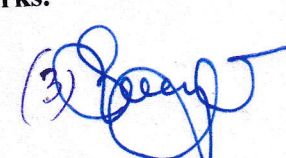
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Semester IV								
1	Part - I	U4R4TL4/HL4/FL4	Language Course-IV	3	5	30	70	100
2	Part - II	U4R4EL4	English Language Course - IV	3	5	30	70	100
3	Part - III	U4R4CHCC7	General Chemistry-IV	5	6	30	70	100
4		U4R4CHCC8P	Physical Chemistry Practical-1	5	5	40	60	100
5		U4R4CHAC6P	Allied Physics Practical-II	3	5	40	60	100
6	Part - IV	U4R4CHSEC2:1 / 2:2	Industrial Chemistry and applications/ Laboratory methods in water analysis	2	2	30	70	100
7		U4R4CHSLC1	Online Course (SWAYAM-MOOC's / SWAYAM Plus/ NPTEL/ COURSERA)	2	-	-	-	100
8		U4R4ES	Environmental Studies	2	2	30	70	100
Total				25	30	-	-	800
Semester V								
1	Part - III	U5R4CHCC9	Organic Chemistry-I	5	5	30	70	100
2		U5R4CHCC10	Inorganic Chemistry-I	4	5	30	70	100
3		U5R4CHCC11	Physical Chemistry	4	5	30	70	100
4		U5R4CHCC12P	Physical Chemistry Practical -II	4	5	40	60	100
5		U5R4CHDSE1:1 / 1:2	Polymer Science / Chemistry of Everyday life	3	5	30	70	100
6	Part - IV	U5R4CHINT	Internship	2	-	-	-	100
7		U5R4CHSEC3:1 / 3:2	Green Chemistry / Dairy Chemistry	2	3	30	70	100
8		U5R4SLC2:1 / 2:2	Environmental issues and solutions / Food safety and preservation	2	-	50	50	100
9		U5R4IDM	Introduction to Disaster Management	2	2	30	70	100
Total				28	30	-	-	900
Semester VI								
1	Part - III	U6R4CHCC13	Organic Chemistry-II	4	5	30	70	100
2		U6R4CHCC14	Inorganic Chemistry-II	4	5	30	70	100
3		U6R4CHCC15PW	Project Work	4	6	-	-	100
4		U6R4CHDSE2:1 / 2:2	Nanochemistry and nanotechnology / Textile Chemistry	3	5	30	70	100
5		U6R4CHDSE3:1 / 3:2	Pharmaceutical Chemistry / Sugar Chemistry and Sugar Technology	3	5	25	75	100
6	Part - IV	U6R4CHVAC	Phytochemistry of Medicinal Plants	2	2	-	-	100
7		U6R4GS	Gender Studies	2	2	25	75	100
	Part - V		Extension Activity	1	-	-	-	-
Total				23	30	-	-	700
Grand Total				148				4600

* Internship during Semester – IV Summer Vacation. The Credits shall be awarded in Semester - V
Statement of Marks.

(1) 

(2) 

(3) 

(4) 