B.Sc.-B.Ed (Chemistry)

Department of Chemistry and Chemical Biology

1st Semester Course Structure

Sl.	Course Type	Course Code	Course Name	L-T-P	Course Category	Credits
1			Language 1 (as per the 8th schedule of the Constitution of India): Sanskrit	3-1-0	Theory	4
2			Understanding India (Indian Ethos and Knowledge Systems)	2-0-0	Theory	2
3			Evolution of Indian Education	3-1-0	Theory	4
4	Major	Major	Chemistry I	3-1-0	Theory	4
5	Major	Major	Chemistry Lab I	0-0-2	Practical	1
6			Physics I	3-1-0	Theory	4
			Mathematics I			
7			*Art (Performing and Visual) & Creative Expressions*	0-0-3	--	2
						21

2nd Semester Course Structure

Sl.	Course Type	Course Code	Course Name	L-T-P	Course Category	Credits
1			Language 2 (Other than L1): English for Communication/Learning English	3-1-0	Theory	4
2			Understanding India (Indian Ethos and Knowledge Systems)	2-0-0	Theory	2
3			Teacher and Society	2-0-0	Theory	2
4	Major		Chemistry II	3-1-0	Theory	4
5	Major		Chemistry III	3-1-0	Theory	4
6	Major		Chemistry Lab II	0-0-2	Practical	1
7			Physics II	3-1-0	Theory	4
			Mathematics II			
						21

3rd Semester Course Structure

Sl.	Course Type	Course Code	Course Name	L-T-P	Course Category	Credits
1			Child Development and Educational Psychology	3-1-0	Theory	4
2			Pedagogy	3-1-0	Theory	4
3	Major	Major	Chemistry IV	3-1-0	Theory	4
4	Major	Major	Chemistry V	3-1-0	Theory	4
5	Major	Major	Chemistry Lab III	0-0-2	Practical	1
6			Physics III	3-1-0	Theory	4
			Mathematics III			
						21

4th Semester Course Structure

Sl.	Course Type	Course Code	Course Name	L-T-P	Course Category	Credits
1			Philosophical & Sociological Perspectives of Education -I	3-1-0	Theory	4
2			Pedagogy	3-1-0	Theory	4
3	Major		Chemistry VI	3-1-0	Theory	4
4	Major		Chemistry VII	3-1-0	Theory	4
5	Major		Chemistry Lab IV	0-0-2	Practical	1
6			Physics IV	3-1-0	Theory	4
			Mathematics IV			
						21

5th Semester Course Structure

Sl.	Course Type	Course Code	Course Name	L-T-P	Course Category	Credits
1			ICT in Education	2-0-0	Theory	2
2			Pedagogy	3-1-0	Theory	4
4	Major	Major	Chemistry VIII	3-1-0	Theory	4
4	Major	Major	Chemistry IX	3-1-0	Theory	4
5	Major	Major	Chemistry Lab V	0-0-2	Practical	1
5	Major	Major	Chemistry Lab VI	0-0-2	Practical	1
5			Pre-internship Practice (Demo lessons, Peer teaching)	--	--	4
						20

6th Semester Course Structure

Sl.	Course Type	Course Code	Course Name	L-T-P	Course Category	Credits
1			Assessment and Evaluation	2-0-0	Theory	2
2			Inclusive Education	2-0-0	Theory	2
4			Pedagogy	3-1-0	Theory	4
4			Mathematical & Quantitative Reasoning	2-0-0	Theory	2
4	Major		Chemistry X	3-1-0	Theory	4
4	Major		Chemistry XI	3-1-0	Theory	4
7			*School Observation (Field Practice)*	--	--	2
						20

7th Semester Course Structure

Sl.	Course	Course Code	Course Name	L-T-P	Course	Credits
1			Curriculum Planning & Development (textbooks, material development, etc.) – (Stage Specific)	2-0-0	Theory	2
2			Perspectives on School Leadership and Management	2-0-0	Theory	2
4			Art (Performing and Visual) & Creative Expressions	0-0-4		2
4			Sports, Nutrition and Fitness	--	--	2
5			School-based Research Project	--	--	2
5			Internship in Teaching	--	--	10
						20

8th Semester Course Structure

Sl.	Course Type	Course Code	Course Name	L-T-P	Course	Credits
1			Citizenship Education, Sustainability and Environment Education	2-0-0	Theory	2
2			Education Policy Analysis	2-0-0	Theory	2
4			Philosophical & Sociological Perspectives of Education-II	3-1-0	Theory	4
4			Yoga and Understanding Self	2-0-0	Theory	2
4			Depth Elective I (Education Major)	3-1-0	Theory	4
4			Creating Teaching Learning Material/Work Experience (Educational Toy making, local/traditional vocations, etc.)	--	--	2
			Post Internship (Review and Analysis)	--	--	2
			Community Engagement and Service	--	--	2
						20