

**MSc in Chemistry (2-Year)**  
with specialization in Analytical Chemistry

**Curriculum:**

<b>SEMESTER I</b>							
Sl. No	Type	Course No.	Course Name	L	T	P	Credits
<b>THEORY</b>							
1	Core	TBD	Advanced Organic Chemistry	3	1	0	4
2	Core	TBD	Advanced Inorganic Chemistry	3	1	0	4
3	Core	TBD	Photochemistry and Electrochemistry	3	1	0	4
4	CBCS	TBD	Probability and Statistics	4	0	0	4
<b>PRACTICAL</b>							
5	Lab	TBD	Lab-I (Organic Chemistry)	0	0	3	2
6	Lab	TBD	Lab-II (Inorganic Chemistry)	0	0	3	2
<b>TOTAL</b>				12	4	6	<b>20</b>
7	Non-Credit	TBD	Seminar / SkillX	-	-	-	2

<b>SEMESTER II</b>							
Sl. No	Type	Course No.	Course Name	L	T	P	Credits
<b>THEORY</b>							
1	Core	TBD	Advanced Physical Chemistry	3	1	0	4
2	Core	TBD	Organometallics and Bioinorganic Chemistry	3	1	0	4
3	Core	TBD	Spectroscopy for Structure Determination and Analysis	3	1	0	4
4	CBCS	TBD	Database Design	4	0	0	4
<b>PRACTICAL</b>							
5	Lab	TBD	Lab-III (Analytical Chemistry)	0	0	3	2
6	Lab	TBD	Lab-IV (Physical Chemistry)	0	0	3	2
<b>TOTAL</b>				12	4	6	<b>20</b>
7	Non-Credit	TBD	Seminar / SkillX	-	-	-	2

<b>SEMESTER III</b>							
<b>Sl. No</b>	<b>Type</b>	<b>Course No.</b>	<b>Course Name</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
<b>THEORY</b>							
1	Core	TBD	Principles of Analytical Chemistry	3	1	0	4
2	Core	TBD	Instrumental Methods of Analysis	3	1	0	4
3	Core	TBD	Toxicology of Drugs, Foods and Environmental Pollutants	3	1	0	4
4	Core	TBD	Sensors: Design, Fabrication and Applications	3	1	0	4
<b>PRACTICAL</b>							
5	Lab	TBD	Term Paper on Analytical Chemistry	0	0	6	4
<b>TOTAL</b>				12	4	6	<b>20</b>
6	Non-Credit	TBD	Seminar / SkillX	-	-	-	2

<b>SEMESTER IV</b>							
<b>Sl. No</b>	<b>Type</b>	<b>Course No.</b>	<b>Course Name</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
<b>PRACTICAL</b>							
1	Lab	TBD	Project	0	0	27	18
2	Lab	TBD	Comprehensive Viva-Voce	-	-	-	2
<b>TOTAL</b>				0	0	27	<b>20</b>
3	Non-Credit	TBD	Seminar / SkillX	-	-	-	2

**Total Credit = (4 × 20) + (4 × 2) = 80 + 8**