

M.SC. CHEMISTRY SCHEME EFFECTIVE FROM 2017-18

**SEMESTER I**

Course Code	University Course Type	Course Name	Teaching Scheme			
			L	T	P	C
CHY 166	Core Theory	Advanced Inorganic Chemistry-I	3	1	0	4
CHY 167	Core Theory	Advanced Organic Chemistry -I	3	1	0	4
CHY 168	Core Theory	Advanced Physical Chemistry -I	3	1	0	4
CHY 169	Core Theory	Spectroscopy	3	1	0	4
PHY 205	Core Practical	Computational Physics Lab	0	0	4	2
CHY 170	Core Practical	Chemistry Practical-I	0	0	6	3
ENG 109	Skill Enhancement Course	Communicative English	2	0	0	2
<b>Total</b>			<b>14</b>	<b>4</b>	<b>12</b>	<b>23</b>

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**SEMESTER II**

Course Code	University Course Type	Course Name	Teaching Scheme			
			L	T	P	C
CHY 171	Core Theory	Advanced Inorganic Chemistry-II	3	1	0	4
CHY 172	Core Theory	Advanced Organic Chemistry -II	3	1	0	4
CHY 173	Core Theory	Advanced Physical Chemistry -II	3	1	0	4
CHY 174	Core Practical	Applied Chemistry Lab	0	0	6	3
CHY 175	Core Practical	Chemistry Practical-II	0	0	6	3
CHY 176	Department Specific Elective-1	Biology for Chemist ( for students with PCM in B.Sc)	3	1	0	4
CHY 177		Mathematics for Chemist ( for students with CBZ in B.Sc)				
<b>Total</b>			<b>12</b>	<b>4</b>	<b>12</b>	<b>22</b>

M.S.C. CHEMISTRY SCHEME EFFECTIVE FROM 2017-18

**SEMESTER III**

Course Code	University Course Type	Course Name	Teaching Scheme			
			L	T	P	C
CHY 178	Core Theory	Advanced Inorganic Chemistry-III	3	1	0	4
CHY 179	Core Theory	Advanced Organic Chemistry -III	3	1	0	4
CHY 180	Core Theory	Advanced Physical Chemistry -III	3	1	0	4
CHY 181	Core Practical	Advanced Chemistry Lab-I	0	0	6	3
CHY 182		Chemistry Practical-III	0	0	6	3
CHY 183	Department Specific Elective-2	Natural Product Chemistry	3	1	0	4
CHY 184		Group Theory				
CHY 195		Thermal & photochemistry				
CHY 186		Analytical Chemistry				
CHY 187		Biochemistry				
		<b>Total</b>				

M.S.C. CHEMISTRY SCHEME EFFECTIVE FROM 2017-18

**SEMESTER IV**

Course Code	University Course Type	Course Name	Teaching Scheme			
			L	T	P	C
CHY 188	Department Specific Elective -3	Organic Synthesis	3	1	0	4
CHY 190		Organotransition Metallic Chemistry				
CHY 192		Biophysical & Surface Chemistry				
CHY 194		Nuclear & Radiation Chemistry				
CHY 196		Mineral Based Industrial Chemistry				
CHY 189	Department Specific Elective -4	Heterocyclic Chemistry	3	1	0	4
CHY 191		Bioinorganic Chemistry				
CHY 193		Chemical Dynamics				
CHY 185		Pharmaceutical chemistry				
CHY 197		Green Chemistry				
CHY 198	Core Practical	Advanced Chemistry Lab-II	0	0	6	3
CHY 199	Core Course	Seminar	0	0	6	3
CHY 200	Core Course	Project	0	0	12	6
<b>Total</b>			<b>6</b>	<b>2</b>	<b>24</b>	<b>20</b>

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**Program Name: M.Sc. Chemistry**

**2017-18**

<b>S.No.</b>	<b>Category of Courses</b>	<b>Category Codes</b>	<b>Number of Courses</b>	<b>Credit</b>
1.	Professional Core Credits	PC	17	60
2.	Professional Elective Core Credit	PE	4	16
3.	Project Credit	PR	1	6
4.	Seminar & training Credit	ST	1	3

5.	Open Elective Credit	OE	0	0
6.	Basic Science Credit	BS	0	0
7.	Engineering Science Credit	ES	0	0
8.	HU/SS/MAN	HSM	0	0
9.	Skill Enhancement Course		1	2
10.	Ability Enhancement Course		0	0
	Total		24	87

<b>Category Codes</b>	<b>Number of Courses</b>	<b>Credit</b>
Theory	15	58
Practical	9	29