

**Course Code: B502**  
**Course Name: M.Sc. - Chemistry**  
Course Structure (2016-18)

**Faculty of Physical Sciences**  
**Department of Chemistry**  
**M. Sc. - Chemistry**

**Scheme of Studies and Examination**

**1<sup>st</sup> Semester**

S No	Course Title	Course Code	Teaching Schedule Per Week				Credits	Evaluation Scheme		
			L	T	P	Total		Int.	Ext.	Total
1.	Inorganic Chemistry –I (Coordination Chemistry)	CHEM 5101	4	1	0	5	4.5	40	60	100
2.	Inorganic Chemistry Lab –I	CHEM5102	0	0	6	6	3	15	35	50
3.	Organic Chemistry –I	CHEM5103	4	1	0	5	4.5	40	60	100
4.	Organic Chemistry Lab -I	CHEM5104	0	0	6	6	3	15	35	50
5.	Quantum Chemistry	CHEM5105	4	1	0	5	4.5	40	60	100
6.	Molecular Spectroscopy	CHEM5106	4	1	0	5	4.5	40	60	100
<b>Total</b>			<b>16</b>	<b>4</b>	<b>12</b>	<b>32</b>	<b>24</b>			<b>500</b>

**2<sup>nd</sup> Semester**

S No	Course Title	Course Code	Teaching Schedule Per Week				Credits	Evaluation Scheme		
			L	T	P	Total		Int.	Ext.	Total
1.	Organometallic Chemistry	CHEM5107	4	1	0	5	4.5	40	60	100
2.	Organic Chemistry –II	CHEM5108	4	1	0	5	4.5	40	60	100
3.	Thermodynamics	CHEM5109	4	1	0	5	4.5	40	60	100
4.	Physical Chemistry Lab –I	CHEM5110	0	0	6	6	3	15	35	50
5.	Instrumental Methods of Analysis	CHEM5111	4	1	0	5	4.5	40	60	100
6.	Analytical Chemistry Lab-I	CHEM5112	0	0	6	6	3	15	35	50
<b>Total</b>			<b>16</b>	<b>4</b>	<b>12</b>	<b>32</b>	<b>24</b>			<b>500</b>

### 3<sup>rd</sup> Semester

S No	Course Title	Course Code	Teaching Schedule Per Week				Credits	Evaluation Scheme		
			L	T	P	Total		Int.	Ext.	Total
1. 2. 3.	Solid State Chemistry/ Theoretical Chemistry/ Medicinal Chemistry	CHEM6101	4	1	0	5	4.5	40	60	100
4. 5. 6.	Inorganic Chemistry-III/ Organic Chemistry-III/ Physical Chemistry -III (Chemical Kinetics)	CHEM6102	4	1	0	5	4.5	40	60	100
7.	Physical Chemistry ( Spectroscopy)	CHEM6103	4	1	0	5	4.5	40	60	100
8. 9. 10.	Inorganic Chemistry -IV/ BioorganicChemistry-IV/ Physical Chemistry-IV (Corrosion and Spectroscopy)	CHEM6201/ CHEM6204/ CHEM6207	4	1	0	5	4.5	40	60	100
11. 12. 13.	Inorganic Chemistry Lab-II/ Organic Chemistry Lab -II/ Physical Chemistry Lab-II	CHEM6202/ CHEM6205/ CHEM6208	0	0	5	5	2.5	15	35	50
14. 15. 16.	Inorganic Chemistry Lab-III/ Organic Chemistry Lab -III/ Physical Chemistry Lab-III	CHEM6203/ CHEM6206/ CHEM6209	0	0	5	5	2.5	15	35	50
<b>otal</b>			<b>12</b>	<b>3</b>	<b>15</b>	<b>30</b>	<b>23</b>			<b>500</b>

**4<sup>th</sup> Semester**

S No	Course Title	Course Code	Teaching Schedule Per Week				Credits	Evaluation Scheme		
			L	T	P	Total		Int.	Ext.	Total
1. 2. 3.	Bioinorganic Chemistry-V/ Organic Chemistry -V/ Physical Chemistry-V (Electrochemistry)	CHEM6210/ CHEM6213/ CHEM6216	4	1	0	5	4.5	40	60	100
4. 5. 6.	Inorganic Chemistry-VI/ Organic Chemistry-VI/ Physical Chemistry-VI (Surface Chemistry)	CHEM6211/ CHEM6214/ CHEM6217	4	1	0	5	4.5	40	60	100
7. 8. 9.	Inorganic Chemistry Lab-IV/ Organic Chemistry Lab-IV/ Physical Chemistry Lab -IV	CHEM6212/ CHEM6215/ CHEM6218	0	0	5	5	2.5	15	35	50
10.	Inorganic Chemistry VII/ Organic Chemistry VII/ Physical Chemistry VII <b>AND</b> Inorganic Chemistry Lab -V/ Organic Chemistry Lab- V/ Physical Chemistry Lab-V <b>OR</b>	CHEM6220 / CHEM6222/ CHEM6224  CHEM6221/ CHEM6223/ CHEM6225	4  0	1  0	0  6	5  6	4.5  3  <b>OR</b>	40  15	60  35	100  50
	Project	CHEM6219	0	0	15	15	7.5	50	100	150
	<b>Total</b>			<b>12</b>	<b>3</b>	<b>15</b>	<b>30</b>	<b>19</b>		
<b>Grand Total</b>							<b>90</b>			<b>1900</b>