

## Semester wise Distribution of Courses

### Semester I

Course Code	Course Name	Contact hours			Credit
		L	T	P	
CY 401	Stereochemistry and Organic Reaction Mechanism	4	0	0	04
CY 403	Basic Inorganic and Main Group Chemistry	3	0	0	03
CY 405	Chemical and Statistical Thermodynamics	3	0	0	03
CY 407	Quantum Chemistry	4	0	0	04
CY 409	Analytical and Environmental Chemistry	3	0	0	03
CY 481	Organic Chemistry Laboratory	0	0	6	04
		<b>Total</b>			<b>21</b>

### Semester II

Course Code	Course Name	Contact hours			Credit
		L	T	P	
CY 402	Pericyclic Reactions, Photochemistry and Applied Spectroscopy	4	0	0	04
CY 404	Transition and Post Transition Metal Chemistry and Reaction Mechanism	3	0	0	03
CY 406	Symmetry and Group Theory	3	0	0	03
CY 408	Molecular Spectroscopy	3	0	0	03
CY 410	Surfaces and Electrochemistry	3	0	0	03
CY 482	Inorganic Chemistry Laboratory	0	0	6	04
CY 484	Analytical Chemistry Laboratory	0	0	3	02
		<b>Total</b>			<b>22</b>

### Semester III

Course Code	Course Name	Contact hours			Credit
		L	T	P	
CY 501	Advanced Organic Chemistry	3	0	0	03
CY 503	Organometallic and Bioinorganic Chemistry	3	0	0	03
	<b>Elective 1</b>	3	0	0	03
	<b>Elective 2</b>	3	0	0	03
CY 581	Physical Chemistry Laboratory	0	0	6	04
CY 571	Project (Part I)	0	0	4	02
XXXX	Scientific Writing and Seminar	0	0	2	01
		<b>Total</b>			<b>19</b>

### Semester IV

Course Code	Course Name	Contact hours			Credit
		L	T	P	
	<b>Elective 3</b>	3	0	0	03
	<b>Elective 4</b>	2	0	2	03
	<b>Elective 5</b>	3	0	0	03
CY 572	Project (Part II)	0	0	20	10
		<b>Total</b>			<b>19</b>