

## M. Sc. (Two years) Course Structure

	<b>Semester I</b>	<b>Semester II</b>
<b>Year I</b>	CY-401: Basic concepts and coordination chemistry (3) CY-402: Physical organic chemistry (3) CY-403: Quantum chemistry (3) CY-404: Mathematics for chemists (3) CY-405: Inorganic Chemistry Lab: Quantitative and Qualitative analysis (3) CY-406: Organic chemistry Lab: Techniques (3) CY-407: Computer programming Lab. (2) <div style="text-align: right;">(20 credits)</div>	CY-451: Main group and inner transition elements (3) CY-452: Organic reactions and mechanisms (3) CY-453: Molecular spectroscopy (3) CY-454: Chemical and Statistical thermodynamics (3) CY-455: Biological Chemistry (3) CY-456: Inorganic chemistry Lab: Synthesis (3) CY-457: Physical chemistry Lab (3) <div style="text-align: right;">(21 credits)</div>
	<b>Semester III</b>	<b>Semester IV</b>
<b>Year II</b>	CY-501: Spectroscopic methods for structure elucidation (3) CY-502: Advanced organic synthesis (3) CY-503: Chemical dynamics (3) CY-504: Chemical Binding (3) CY-505: Advanced Inorganic Chemistry (3) CY-506: Organic chemistry Lab: Synthesis (3) CY-507: Instrumentation and computer applications Lab (3) <div style="text-align: right;">(21 credits)</div>	CY-551: Chemistry of materials (3) CY-552: Seminar (3) CY-553: Project (3) <b>Electives of 6 Credits</b> from CY-571 to 582 <div style="text-align: right;">(15 credits)</div>

NOTE: The above courses are the minimum requirement for the degree. Students are encouraged to take extra electives in all semesters which will earn Extra-credits for them.