M. Sc. (Two year program) course structure (Total Credits = 77)

	I Semester	II Semester
I Year	CY-401 : Basic concepts and coordination chemistry (3) CY-402 : Basic concepts of organic chemistry (3) CY-403 : Physical chemistry (3) CY-404 : Mathematics for chemists (3) CY-405 : Inorganic chemistry Lab I (3) CY-406 : Organic chemistry Lab I (3) (18 credits)	CY-451 : Main group and inner transition elements (3) CY-452 : Organic reactions and mechanisms (3) CY-453 : Symmetry and spectroscopy (4) CY-454 : Chemical and statistical thermodynamics (3) CY-455 : Inorganic chemistry Lab II (3) CY-456 : Physical chemistry Lab (3) (19 credits)
	III Semester	**IV Semester**
II Year	CY-501 : Spectroscopic and other physical methods (3) CY-502 : Reactive intermediates and synthesis in organic chemistry (3) CY-503 : Chemical dynamics (3) CY-504 : Chemical binding (3) CY-505 : Bioinorganic and organometallic chemistry (3) CY-506 : Organic chemistry Lab II (3) CY-507 : Instrumentation and computer applications Lab (3) (21 credits)	CY-551 : Chemistry of materials (3) CY-552 : Biological chemistry (3) CY-553 : Seminar course (3) CY-554 : Project (6) **Students have to opt any 2 of the following 4 elective courses:** CY-571 : Organometallic Chemistry (2) CY-572 : Supramolecular Chemistry (2) CY-573 : Stereoselective Organic Synthesis (2) CY-574 : Advanced Magnetic Resonance (2) (19 credits)