

MSc (Chemistry)

6. SEMESTER-WISE SCHEDULE

SEMESTER I

Course type	Course title	Lecture (L)	Tutorial (T)	Practical (P)	Contact Hour (CH)	Credits
Core	CH 401: Principles of Inorganic Chemistry	3	0	0	3	3
	CH 403: Chemical and Statistical Thermodynamics	3	0	0	3	3
	CH 407: Principles of Organic Chemistry	3	0	0	3	3
	CH 409: Quantum Chemistry and Chemical Bonding-I	3	0	0	3	3
	CH 411: Principles and Applications of Spectroscopy	3	0	0	3	3
	CH 405: Laboratory Course in Organic Chemistry	0	0	6	12	6

SEMESTER II

Course type	Course title	Lecture (L)	Tutorial (T)	Practical (P)	Contact Hour (CH)	Credits
Core	CH 408: Chemistry of Transition Elements	3	0	0	3	3
	CH 410: Chemical Dynamics and Electrochemistry	3	0	0	3	3
	CH 414: Quantum Chemistry and	3	0	0	3	3

	Chemical Bonding-II					
	CH 412: Laboratory Course in Inorganic Chemistry	0	0	6	12	6
	CH 418: Organic Reactions and Mechanism	3	0	0	3	3
Discipline Specific Elective	CH 416: History of Chemistry	3	0	0	3	3

SEMESTER III

Course type	Course title	Lecture (L)	Tutorial (T)	Practical (P)	Contact Hour (CH)	Credits
Core	CH 501: Bio-Organic Chemistry	3	0	0	3	3
	CH 519: Physical Chemistry of Surface and Condensed Systems	3	0	0	3	3
	CH 521: Analytical Methods in Chemistry	3	0	0	3	3
	CH 525: Organometallic Chemistry	3	0	0	3	3
	CH 505: Laboratory Course in Physical Chemistry	0	0	6	12	6
Discipline Specific Elective	CH 523: Chemical Technology and Society	3	0	0	0	3


 Controller of Examinations
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SEMESTER IV

Course type	Course title	Lecture (L)	Tutorial (T)	Practical (P)	Contact Hour (CH)	Credits
Core	CH 530: Project Work*	0	0	8	16	8
Elective I (Discipline Specific Elective)	CH 506: Catalysis / CH508: Methods in Organic Synthesis / CH528: Special Topics in Inorganic Chemistry / CH532: Chemistry of Paints and Surface Coating	3	0	0	3	3
Elective II (Discipline Specific Elective)	CH 514: Biomolecular Chemistry/ CH516: Computational Chemistry and Numerical Analysis / CH518: Organic Solid States Chemistry / CH520: Environmental and Green Chemistry / CH534: Industrial Polymer	3	0	0	3	3
Elective III (Discipline Specific Elective)	CH 522: Polymer Chemistry / CH524:Heterocyclic Compounds and Medicinal Applications / CH526:Bio-inorganic Chemistry / CH536: Chemistry of Materials	3	0	0	3	3

* To be carried out in the Department under the guidance of an assigned faculty member of the Department.