

S.S. Jain Subodh P.G. College, Jaipur
MASTER OF SCIENCE
Chemistry

Class	Subject	Unit	Name
M Sc Sem I	Inorganic Chemistry-I	Unit-I	Stereochemistry and Bonding in main group Compounds, Metal Ligand Equilibria in Solution
		Unit-II	Metal Ligand Bonding
M Sc Sem I	Organic Chemistry-I	Unit-I	Reaction Mechanism, Structure and Reactivity
		Unit-II	Aliphatic Nucleophilic Substitution Reactions; Aromatic Nucleophilic Substitution Reactions
M Sc Sem I	Physical Chemistry-I	Unit I	Introduction to Exact Quantum Mechanical Results; Angular Momentum
		Unit III	Chemical Kinetics I & II
M Sc Sem I	Spectroscopy-I	Unit-I	Rotational Spectroscopy
		Unit-III	Electronic Spectroscopy
M Sc Sem I	Bioinorganic Chemistry	Unit-I	Metals in life Processes
		Unit-IV	Nitrogen Fixation
M Sc Sem I	Introduction to Analytical techniques and nano chemistry	Unit-I	Electroanalytical Techniques
		Unit-II	Chromatography Techniques
M Sc Sem III	Photochemistry	Unit-I	Basics of Photochemistry
		Unit-II	Photochemical Reactions of Carbonyl Compounds
M Sc Sem III	Bioorganic Chemistry	Unit I	Enzymes
		Unit-III	Co-enzyme Chemistry
M Sc Sem III	Environmental Chemistry	Unit-II	Soil and Environmental Disasters
		Unit-III	Waste Management
M Sc Sem III (ORGANIC)	Organic Synthesis-I	Unit-II	Metal and Non-metal mediated Oxidation, Hydroboration
		Unit-III	Metal and Non-metal mediated Reduction
M Sc Sem III (ORGANIC)	Natural Products-I	Unit-I	Terpenoids and Carotenoids-I
		Unit-III	Alkaloids
M Sc Sem III (ORGANIC)	Heterocyclic Chemistry-I	Unit-I	Nomenclature of Heterocycles and Aromatic Heterocycles
		Unit -III	Small ring Heterocycles- Three membered and Four membered Heterocycles
M Sc Sem III (PHYSICAL)	Advanced Electrochemistry-I	Unit I	Electroanalytical Techniques
		Unit II	Electrochemical Energy Storage
M Sc Sem III (PHYSICAL)	Phase Rule and Surface Phenomenon	Unit-I	Solution & Phase Equilibrium
		Unit IV	Liquid State
M Sc Sem III (PHYSICAL)	Advanced Chemical Kinetics-I	Unit I	Induced and Kinetic Phenomenon
		Unit-III	Oscillatory Reactions