



DR. RAM MANOHAR LOHIA AVADH UNIVERSITY, AYODHYA

Structure of Syllabus for the Program: M.Sc., Subject: CHEMISTRY

Structure of Syllabus Developed by			
Name of BoS Convener/ BoS Member	Designation	Department	College/ University
Prof. D. N. Singh	Convener	Department of Chemistry	K. S. Saket PG College Ayodhya, U.P.
Dr. Ram Vishun Prasad	Internal Expert	Department of Chemistry	A.N. D. Kishan PG College Babhnan, Gonda, U.P.
Prof. Nanhai Singh	External Expert	Institute of Science, Department of Chemistry	BHU Varanasi, U.P.
Prof. Lal Bahadur	External Expert	Institute of Science, Department of Chemistry	BHU Varanasi, U.P.
Prof. D.S. Pandey	External Expert	Institute of Science, Department of Chemistry	BHU Varanasi, U.P.
Prof. Abha Bishnoi	External Expert	Department of Chemistry	University of Lucknow, U.P.
Prof. S.S. Yadav	External Expert	Department of Chemistry	DDU University Gorakhpur, U.P.

Course Code		Course Title	Credits	T/P	Evaluation	
					CIE	ETE
A	B	C	D	E	F	G
SEMESTER I (YEAR I)						
B020701T	CORE	Spectroscopy-I	5	T	25	75
B020702T	CORE	Symmetry & Molecular Vibrations	5	T	25	75
B020703T	CORE	Organic Reaction Mechanism	5	T	25	75
B020704T	FIRST ELECTIVE	Chemical Kinetics & Thermodynamics	5	T	25	75
B020705T	(Subject Elective) (Select any one)	Surface & Solid-State Chemistry	5	T	25	75
B020706P	SECOND ELECTIVE	Chemistry Laboratory Course-I A	5	P	50	50
B020707P	(Subject Elective) (Select any one)	Chemistry Laboratory Course-I B	5	P	50	50
SEMESTER II (YEAR I)						
B020801T	CORE	Chemistry of Main Group Elements	5	T	25	75
B020802T	CORE	Stereochemistry & Spectroscopy-II	5	T	25	75
B020803T	CORE	Advanced Quantum Mechanics	5	T	25	75
B020804T	THIRD ELECTIVE	Research Aptitude	5	T	25	75
B020805T	(Generic Elective) (Select any one)	Environmental Science	5	T	25	75

B020806P	FOURTH ELECTIVE	Chemistry Laboratory Course-II A	5	P	50	50
B020807P	(Subject Elective) (Select any one)	Chemistry Laboratory Course-II B	5	P	50	50
SEMESTER III (YEAR II)						
B020901T	CORE	Coordination & Bioinorganic Chemistry	5	T	25	75
B020902T	CORE	Pericyclic, Photochemistry & Rearrangement Reactions	5	T	25	75
B020903T	CORE	Electrochemistry	5	T	25	75
B020904T	FIFTH ELECTIVE	Natural Products	5	T	25	75
B020905T	(Subject Elective) (Select any one)	Medicinal Chemistry	5	T	25	75
B020906P	SIXTH ELECTIVE	Chemistry Laboratory Course-III A	5	P	50	50
B020907P	(Subject Elective) (Select any one)	Chemistry Laboratory Course-III B	5	P	50	50
SEMESTER IV (YEAR II)						
B021001T	CORE	Organotransition Metal Chemistry	5	T	25	75
B021002T	CORE	Organic Synthesis	5	T	25	75
B021003T	SEVENTH ELECTIVE	Analytical Chemistry	5	T	25	75
B021004T	(Subject Elective) (Select any one)	Polymer Chemistry	5	T	25	75
B021001P	RESEARCH PROJECT/ DISSERTATION	Practical Based Major Research Project / Dissertation	10	P	50	50