Programme Name: MSc Analytical Chemistry

Summary of Courses offered from Semester 1 to 4

DEPARTMENT OF CHEMISTRY (PG COURSES - 2026-2029)

Semester 1	Code Number	Title	No of hours of instructions	Number of hours of teaching per week	Number of credits	Continuous Assessment (CA) Marks	End semester marks	Total marks
Theory	CH 7126	INORGANIC CHEMISTRY I	60	4	4	50	50	100
Theory	CH 7226	ORGANIC CHEMISTRY I	60	4	4	50	50	100
Theory	CH 7326	PHYSICAL CHEMISTRY I	45	3	3	50	50	100
Theory	CH 7426	SPECTROSCOPY I	60	4	4	50	50	100
Theory	CH 7526	PRINCIPLES OF CHEMICAL ANALYSIS	60	4	4	50	50	100
Practical	CH 7P126	INORGANIC CHEMISTRY PRACTICAL	44	4	2	35	15	50
Practical	CH 7P226	CHEMICAL ANALYSIS	44	4	2	35	15	50
Practical	CH 7P326	ORGANIC CHEMISTRY PRACTICAL	44	4	2	35	15	50
Practical	CH 7P426	APPLIED ANALYSIS	44	4	2	35	15	50
Total Number of credits:					27			

Semester 2	Code Number	Title	No of hours of instructions	Number of hours of teaching per week	Number of credits	Continuous Assessment (CA) Marks	End semester marks	Total marks
Theory	CH 8126	INORGANIC CHEMISTRY II	60	4	4	50	50	100
Theory	CH 8226	ORGANIC CHEMISTRY II	60	4	4	50	50	100
Theory	CH 8326	PHYSICAL CHEMISTRY II	60	4	4	50	50	100
Theory	CH 8426	SPECTROSCOPY II	60	4	4	50	50	100
Theory	CH 8526	SEPARATION TECHNIQUES	45	3	3	50	50	100
Practical	CH 8P126	PHYSICAL CHEMISTRY PRACTICAL I	44	4	2	35	15	50
Practical	CH 8P226	PHYSICAL CHEMISTRY PRACTICAL II	44	4	2	35	15	50
Practical	CH 8P326	SYNTHESIS AND CHARACTERIZATION I	44	4	2	35	15	50
Practical	CH 8P426	SYNTHESIS AND CHARACTERIZATION II	44	4	2	35	15	50
Total Number of credits:					27			

Semester 3	Code Number	Title	No of hours of instructions	Number of hours of teaching per week	Number of credits	Continuous Assessment (CA) Marks	End semester marks	Total marks
Theory	CH 9126	BIOLOGICAL CHEMISTRY	45	3	3	50	50	100
Theory	CH 9226	ORGANOMETALLIC CHEMISTRY AND INORGANIC REACTION MECHANISMS	45	3	3	50	50	100
Theory	CH 9326	ELECTROCHEMISTRY AND ELECTROANALYTICAL TECHNIQUES	45	3	3	50	50	100
Theory	CH 9426	SOLID STATE CHEMISTRY	60	4	4	50	50	100
Theory	CH 9526	APPLIED ANALYSIS	45	3	3	50	50	100
Theory	CH 9626	APPLIED COMPUTATIONAL CHEMISTRY AND AI	45	3	3	50	50	100
Practical	CH 9P126	ADVANCED METHODS OF ANALYSIS	44	4	2	35	15	50
Practical	CH 9P226	SOLID STATE AND MATERIALS CHEMISTRY	44	4	2	35	15	50
Practical	CH 9P326	QUANTUM SIMULATIONS	44	4	2	35	15	50
Practical	CH 9P426	RESEARCH LAB	44	4	2	35	15	50
Total Number of credits:					27			

Semester 4	Code Number	Title	No of hours of instructions	Number of hours of teaching per week	Number of credits	Continuous Assessment (CA) Marks	End semester marks	Total marks
Theory (Department Elective)	CHDE	0226 - CHEMISTRY OF MATERIALS 0326- GREEN CHEMISTRY AND DIVERSITY OF ITS APPLICATIONS 0426 - FORENSIC CHEMISTRY 0526- SUPRAMOLECULAR CHEMISTRY	60	4	4	50	50	100
Project Work	CH0PR			35	10			200
Total Number of credits:					14			

Total no of credits from fours semesters: S1+S2+S3+S3	**27 +27 + 27 + 14**
Additional Credits – Ignitors and Outreach	**04**
Total no. of credits for the Programme	**99**