

Semester-wise Course Scheme MS (Chemistry) Program.

General Courses 1st Year (Semester I)

S. No	Course Code	Course Title	Credit Hrs.
1.	GRC 5011	Research Methodology	3+0
2.	CHM 5011	Instrumentation and Techniques	3+0

Organic Chemistry

S. No	Course Code	Course Title	Credit Hrs.
1.	CHM 5171	Structural Elucidation of Organic Compound by Advanced Spectroscopic Techniques	3+0
2.	CHM 5181	Advanced Stereochemistry	3+0

Physical Chemistry

S. No	Course Code	Course Title	Credit Hrs.
1.	CHM 5311	Advanced Chemical Kinetic	3+0
2.	CHM 5331	Nuclear and Radiation Chemistry	3+0

Analytical/Inorganic Chemistry

S. No	Course Code	Course Title	Credit Hrs.
1.	CHM 5711	Advanced Spectroscopic Techniques	3+0
2.	CHM 5731	Applied Nanochemistry	2+1
3.	CHM 5541	Group Theory	3+0
4.	CHM 5571	Metal Based Drugs	3+0

General Courses 1st Year (Semester II)

S. No	Course Code	Course Title	Credit Hrs.
1.	CHM 5012	Computational Chemistry	2+1
2.	CHM 5022	Statistical data handling and Mathematics	2+1

Organic Chemistry

S. No	Course Code	Course Title	Credit Hrs.
1.	CHM 5102/5101	Advanced Natural Products	3+0
2.	CHM 5112/5111	Advanced Organic Synthesis	3+0

Physical Chemistry

S. No	Course Code	Course Title	Credit Hrs.
1.	CHM 5342	Surface Chemistry, Colloids & Surfactants	3+0
2.	CHM 5352	Biophysical Chemistry	3+0
3.	CHM 5362	Physical Aspects of Environment	3+0

Analytical/Inorganic Chemistry

S. No	Course Code	Course Title	Credit Hrs.
1.	CHM 5512	Inorganic Material Chemistry	3+0
2.	CHM 5572	Chemistry of Organometallic Compounds	3+0
3.	CHM 5522	Environmental toxicology and chemistry	3+0
4.	CHM 5712	Advanced Chromatographic techniques	3+0