

Master of Science (M.Sc.) in Chemistry (Inorganic Chemistry)

Duration: 2 Years (4 Semesters)

Program Type: Postgraduate Degree

Specialization: Inorganic Chemistry

Note: Subject codes may vary by university. The following is a standard university-style syllabus structure.

Semester I

Subject Code	Subject Name
IOC101	Structure and Bonding in Inorganic Chemistry
IOC102	Main Group Chemistry
IOC103	Transition Metal Chemistry
IOC104	Chemical Thermodynamics
IOC105	Spectroscopic Methods in Chemistry
IOC106P	Inorganic Chemistry Practical-I
IOC107P	Analytical Chemistry Practical-I

Credits: 24

Semester II

Subject Code	Subject Name
IOC201	Coordination Chemistry
IOC202	Organometallic Chemistry
IOC203	Bioinorganic Chemistry
IOC204	Quantum Chemistry
IOC205	Reaction Mechanism in Inorganic Chemistry
IOC206P	Inorganic Chemistry Practical-II
IOC207P	Instrumental Analysis Practical

Credits: 24

Semester III

Subject Code	Subject Name
IOC301	Advanced Coordination Chemistry
IOC302	Solid State Chemistry
IOC303	Nuclear and Radiochemistry
IOC304	Environmental Inorganic Chemistry
IOC305	Advanced Spectroscopy
IOC306P	Advanced Inorganic Practical-I
IOC307	Research Methodology

Credits: 24

Semester IV

Subject Code	Subject Name
IOC401	Super molecular Chemistry
IOC402	Nonmaterial's and Nan chemistry
IOC403	Catalysis and Industrial Inorganic Chemistry
IOC404	Elective Paper
IOC405	Dissertation / Research Project
IOC406P	Advanced Inorganic Practical-II
IOC407	Seminar & Viva Voce