

M.Sc. CHEMISTRY

ABOUT THE COURSE: M.Sc. Chemistry, one of the most famous and demanding courses after B.Sc., is a postgraduate program that spans over a period of two years. The Master's course in chemistry is designed with an aim to teach post graduates with the skills to critically assess and solve problems requiring the application of chemical principles from each sub-discipline such as organic, inorganic and physical chemistry. The credit system to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course would have to develop in depth understanding of various aspects of the subject. The conceptual understanding, development of experimental skills, designing and implementation of novel synthetic methods, developing the aptitude for academic and professional skills, acquiring basic concepts for structural elucidation with hyphenated techniques, understanding the fundamental biological processes are among such important aspects. Covering various branches of the field such as organic, inorganic, analytical and physical chemistry, the degree program opens doors for students in an array of research-oriented domains, pharmaceutical companies, government and private organizations, etc.

Course Duration: 2 Years (Semester system)

ELIGIBILITY CRITERIA:

Bachelor's degree with Chemistry as major subject or any other subject according to CBCS/NEP recommended by UGC with a minimum of 50% marks (45% for SC/ST) in aggregate from a recognized Institute/ University. Candidate should have qualified minimum of 24 credits in the chosen specialization at the undergraduate level.

Course Fee: Rs. 29,150 INR (per semester)

FACILITIES:

The department has good instrumental facilities such as double beam UV-Visible Spectrophotometer, digital colorimeters, ultrasonication, HPLC, vacuum rota-evaporator, lyophilizer, vacuum oven, Muffle furnace, digital melting point apparatus, magnetic and

mechanical stirrer, pH meter, orbital shaker etc., and good computer facilities for carrying out advanced research.

CAREER OPPORTUNITIES:

Now-a-days, M.Sc. in chemistry has been proven as the best course for job scopes. It gives candidates a chance to know the variety of domains of the subject. After the completion of the course successfully, student can practice research as a scientist and work in the education sector. If a student wants to pursue higher degrees after completing the courses can even opt for higher studies like M.Phil. and Ph.D. The posts offered after completion of this program are of a chemistry teacher, pharmaceutical sales executive, synthetic lab scientist, research officer, solid-state chemistry expert, analytical. Job profiles and opportunities in these courses is very good.

The common areas of employment where post graduates in chemistry are in-demand have been listed below:

- Medical Research
- Manufacturing and Processing Industries
- Oil and petroleum Industries
- Pharmaceutical Companies
- Agriculture
- Biotechnology Firms
- Chemical Industries
- Forensic Laboratories
- Research and Development (R&D) Firms
- Education
- Cosmetic Industries

