

M.Sc (Organic Chemistry)

- ✓ Develop the strategies used in the synthesis of organic molecules and natural products
- ✓ Develop the techniques used in the preparation and analysis of drugs
- ✓ Develop the methods used in the preparation and analysis of inorganic compounds

Subjects

<u>Semester 1</u>	<u>Semester 2</u>	<u>Semester 3</u>	<u>Semester 4</u>
1. Inorganic Chemistry	1. Inorganic Chemistry	1. Synthetic Reagents, Advanced NMR, Conformational Analysis and ORD	1. Drug design and Drug discovery
2. Organic Chemistry	2. Organic Chemistry	2. Modern Organic Synthesis	2. Drug synthesis and mechanism of action
3. Physical Chemistry	3. Physical Chemistry	3. Bioorganic Chemistry / Forensic chemistry and Toxicology	3. Advanced Heterocyclic Chemistry / Polymers, Dyes and Pigments
4. Analytical Techniques and Spectroscopy-I	4. Analytical Techniques and Spectroscopy-II	4. Green chemistry and Organic materials / pesticides	4. Advanced Natural Products / Biopharmaceutics and Pharmacodynamics
5. Inorganic Chemistry practical's	5. Inorganic Chemistry practical's	5. Synthesis of organic molecules, isolation of natural products & TLC practical's	5. Spectroscopic identification of organic compounds & Practice of chemistry software programs practical's
6. Organic Chemistry practical's	6. Organic Chemistry practical's	6. separation and Identification of organic compounds & Column chromatography practicals	6. Synthesis and analysis of drugs practical's
7. Physical Chemistry practical's	7. Physical Chemistry practical's		