

# **M.Sc CHEMISTRY**

## **Semester I**

- Inorganic Chemistry I
- Organic Chemistry I
- Physical Chemistry I
- Analytical Chemistry I
- (ICT learning in Chemistry, qualifying course)
- Chemistry Lab I – Inorganic - Analytical
- Chemistry Lab II – Organic
- Chemistry Lab III – Physical

## **Semester II**

- Inorganic Chemistry II
- Organic Chemistry II
- Physical Chemistry II
- Principles of Spectroscopy
- Chemistry Lab - IV – Inorganic - Analytical
- Chemistry Lab – V – Organic
- Chemistry Lab – VI – Physical

## **Semester III**

- Group Theory and Applications of Spectroscopy
- Organic Synthetic Methods

- Chemistry of Materials
- Nuclear & Radiochemistry
- Chemistry Lab - VII – Inorganic/Analytical
- Chemistry Lab – VIII – Organic
- Chemistry Lab – IX – Physical

## **Semester IV**

- Analytical Chemistry – III Radio-analytical & Electro-analytical Methods
- Analytical Chemistry – IV Separation Methods
- Analytical Chemistry – V Hyphenated methods and automation
- Analytical Chemistry – VI: Computational Chemistry
- Analytical Chemistry Project
- Inorganic Chemistry III
- Inorganic Chemistry IV
- Inorganic Chemistry V
- Computational Chemistry
- Inorganic Chemistry Project
- Advanced Quantum Chemistry and Photochemistry
- Macromolecules
- Advanced Chemical Kinetics and Photochemistry
- Physical Chemistry Project