

# Course Structure (Chemistry)

## Semester I

1. Inorganic Chemistry
2. Organic Chemistry-I
3. Physical Chemistry-I
4. Modern Methods of Separation

## Semester II

1. Co-ordination Chemistry
2. Organic Chemistry-II
3. Physical Chemistry-II
4. Optical Methods and Environmental Chemistry

## Semester III

1. Spectroscopy-I
2. Analytical Chemistry-I
3. Special paper-I (Elective)
  - i. Inorganic Chemistry (Bio-inorganic Chemistry)
  - ii. Organic Chemistry (Organic Synthesis-I)
4. Special paper-II
  - i. Inorganic Chemistry (Solid State Chemistry)
  - ii. Organic Chemistry (Natural Product-I)

## Semester IV

1. Spectroscopy-II
2. General Analytical Chemistry
5. Special paper-III(Elective)
  - i. Inorganic Chemistry (Photo-inorganic &Organo-metallic Chemistry)
  - ii. Organic Chemistry (Organic Synthesis-II)
3. Special paper-IV
  - i. Inorganic Chemistry (Material Chemistry)
  - ii. Organic Chemistry (Natural Product-II)

During M.Sc. course, there is a practical, based on the theory portion of common as well as special papers which covers experiments on organic, inorganic, physical, analytical chemistry and computer based techniques. The syllabus has been recently revised and implemented from this current session 2017-2018 so as to have horizontal mobility. New topics in existing syllabi have been

incorporated as per the need of new emerging areas such as Green synthesis, DFT, laboratory safety, warfare agents, biosensors, clinical analysis, HPLC technique etc.

The students have to complete a project work for successful completion of M.Sc. course in IV semester. The department prides itself on its educational mission.