

Name of the programme: CHEMISTRY(UG)

Programme Outcomes

After completion of program students will get bachelor degree in science and they can appear in competition for themselves in government job like IAS PCS Bank PO and enrolled in Higher Education like MSC chemistry and certification course like data science digital marketing pharmacist hospital management, forensic, etc.

Programme Specific Outcomes

1. Students will have a firm Foundation in the fundamentals and applicability of current chemical and scientific theories in inorganic, organic, physical and analytical chemistry.
2. Students will be able to problem solve, critical thinking and perform analytical work in labs & industries.
3. Students will be able to understand safe handling of chemicals by taking measures to save from environmental pollution of chemical and taking accurate measurements.

Course Outcomes

B.Sc. 1st Year

Inorganic chemistry:

students acquire knowledge of periodic table, atomic structure and Howto create chemical formula and chemical bonding.

Organic chemistry:

They gain knowledge of fundamentals of organic chemistry, stereochemistry reaction, synthesis.

Physical chemistry:

Understanding basic laws of physical chemistry like Gas Laws, kinetic chemistry solid state & liquid state.

PRACTICAL: They understand acid and basic radicals, separation of acidic and basic radicals, identify all functional groups, melting point and boiling point determination.

B.Sc. 2nd Year

Inorganic Chemistry:

students will have detail knowledge of coordination chemistry, properties of d block elements and lanthanides and actinides oxidation reduction and solvents.

Organic Chemistry:

They will have knowledge about preparing and properties of properties, properties and uses of all functional grp in compounds.

Physical chemistry:

Students will have vast knowledge of thermodynamic law, solution, catalysis and their uses.

PRACTICAL: understanding volumetric, identify of organic compounds acid base neutralization

B.Sc. 3rd Year

Inorganic chemistry:

Students will have detail knowledge of Crystal field theory, colour of compounds, Carbonyl atom, cluster molecule, silicones and phosphazenes

Organic chemistry. Students will have detailed knowledge of Natural products like carbohydrates, protein polymers, oils and fats etc.

Physical chemistry: students will have vast knowledge of quantum chemistry spectroscopy, and their uses Molecular properties, photochemistry

PRACTICAL: separation of organic mixture, synthesis of simple organic & inorganic compounds, testing of adulteration in food samples.

