

Government College, Jind

Chemistry Department

1 Vision:

To create an academically sound environment that nurtures, motivates and inspires excellence in teaching and learning in chemical sciences along with concern for society.

2 Mission

To impart theoretical and practical knowledge in areas of chemical sciences and contribute knowledge which encourages creativity, insight development and a passion for science.

3 Programme Outcome

After completion of degree, students gain the theoretical as well as practical knowledge of handling chemicals. Also they expand the knowledge available opportunities related to chemistry in the government services through union public service commission (UPSC) particularly in the field of food inspector, pharmacist etc.

Afford a broad foundation in chemistry that stresses scientific reasoning and analytical problem solving with a molecular perspective. Achieve the skills required to succeed in graduate school, professional School and the chemical industry like cement industries, agro product, Paint industries, Rubber industries, Petrochemical industries, Food processing industries, Fertilizer industries etc.

4 Programme Duration and Intake:

B.Sc (Non Medical)- 3 Years duration-Intake-240

B.Sc (Medical)- 3 Years durations-Intake-120i

5 Course Outcome

INORGANIC CHEMISTRY

Inorganic Chemistry explanation of atomic structure atomic structure Categorize matter Illustrate the Explain electronic structure of atom. Categorize the atomic structure Relate the quantum numbers and atomic orbitals. evaluate the periodic properties of elements.

Relate periodic properties of elements.

Express the periodically properties of elements Categorize elements estimate molecular structure Relate the molecular structure and Lewis dot notation Calculate formal charge Demonstrate the resonance forms of molecules.

Explain the molecular geometry with VSEPR theory.

Organic chemistry

Explain the nomenclature of Organic Compounds.

To make student understand different organic compounds with respect to the functional group and become eligible to call the name of the organic compounds scientifically.

Basic Concepts In Organic Chemistry. Students become eligible to study the subject initially by understanding the basic things for chemical reactions i.e. Substrate and Reagents Types of reagents Electrophilic and Nucleophilic Homolytic and heterolytic fission.

Electron mobility Inductive effect etc Alkanes and Cycloalkanes Many of the daily used materials are organic compounds and majority of them are hydrocarbon therefore this topic makes the concept regarding their formation Alkenes, Dienes and Alkynes Basic of the alkenes and alkynes etc with respect to the chemical point of view.

Physical Chemistry

To understand electrochemistry to do basic electrical works.

State and apply the laws of thermodynamics; perform calculations with ideal and real gases; design practical engines by using thermodynamic cycles;

Predict chemical equilibrium and spontaneity of reactions by using thermodynamic principles.

To apply the concepts of colloids and gels

To learn depth knowledge about liquid states.

To understand concept of solid state and gaseous state

Study Chemical Kinetics to understand rate factors affecting etc.

Teacher Profile

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