



K. G. Rewatkar
Principal

VIDYA VIKAS SHIKSHAN SANSTHA, HINGANGHAT
VIDYA VIKAS ARTS, COMMERCE & SCIENCE COLLEGE,
SAMUDRAPUR DIST. WARDHA 442305 (M.S.)

(Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur.)

email: vidya_vikascoll@rediffmail.com website: www.vvcs.edu.in

Ph. & Fax No. 07151 225560, 9096943636, 9420060601 (Estd. 1989)

(NAAC Accredited B++ 2022)

BRIDGE COURSE REPORT

Department of Chemistry

B.Sc. Semester I

Session 2024-25

The Department of Chemistry at Vidya Vikas College, Samudrapur, successfully conducted a Bridge Course on Fundamental Chemistry for B.Sc. Semester I students for the session 2024-25. This course aimed to bridge the knowledge gap between high school chemistry and the first-year undergraduate curriculum, ensuring students are well-prepared for their advanced studies.

Course Structure

- **Duration:** 15 July to 27 July
- **Total Hours:** 8-10
- **Frequency:** 5 sessions per week
- **Session Duration:** 1 hour per session

Modules Covered

Module 1: Introduction to Chemistry: This module introduced the basic concepts and importance of chemistry in everyday life, providing students with a strong foundation for more advanced topics.

Module 2: Atomic Structure: Students learned about the structure of atoms, including subatomic particles, atomic number, mass number, isotopes, and the various models of the atom. The electronic configuration was also covered, focusing on quantum numbers, the Aufbau principle, Pauli exclusion principle, and Hund's rule.

Module 3: Stoichiometry and Chemical Reactions: This section covered the mole concept, molar mass, and empirical and molecular formulas.

Module 4: Introduction to Organic Chemistry: This section focused on the structure and bonding in organic molecules and the identification of functional groups. Students learned the IUPAC naming of simple organic compounds, providing them with the necessary skills to understand and communicate organic chemistry concepts effectively.

Assessment

To evaluate the students' understanding and retention of the course material, a comprehensive final test was conducted at the end of the course. This test covered all the topics discussed during the sessions and ensured that students were adequately prepared for their regular chemistry curriculum.



Outcomes

- The Bridge Course on Fundamental Chemistry was well-received by the students and provided them with a solid foundation in essential chemistry concepts.
- The structured approach and focused modules ensured that students were engaged and could transition smoothly into their B.Sc. studies.
- The Department of Chemistry at Vidya Vikas College looks forward to continuing this initiative in future sessions to support and enhance students' academic journey.

Course Co-ordinator

Dr. R.G. Gajbhiye

Mrs. S.W. Awaghade

[Signature]

[Signature]
H.O.D.

Dr. M. N. Narule

[Signature]
Principal

Vidya Vikas Arts Commerce
& Science College, Samudrapur
Dist. Wardha 442305