Department of Chemistry
Government College Theog
Report

Report On Powerpoint Presentation

A PowerPoint presentation activity on various topics of **Coordination Chemistry** was successfully conducted for B.Sc. 3rd year students at Government College Theog under the guidance of Prof. Anamika Ramchaik. Coordination chemistry is an important branch of inorganic chemistry that deals with **coordination compounds (metal complexes)** formed by the interaction of central metal ions with ligands through coordinate bonds. The subject has wide applications in medicine, catalysis, bioinorganic systems, and industrial processes.

Students were divided into groups and assigned specific topics. Each group conducted literature research and prepared PowerPoint slides. Presentations were delivered using visual aids, diagrams, and examples. Interactive discussions and question-answer sessions followed each presentation. Such group-based activities are known to improve understanding and participation in scientific learning.

Objective of the Presentation

The main objectives of organizing this presentation activity were:

- To enhance conceptual understanding of coordination chemistry

- To develop presentation and communication skills among students
- To encourage group discussion, research, and analytical thinking
- To explore real-life applications of coordination compounds

Topics Presented

The students presented a variety of important and advanced topics, including:

- Werner's Theory of Coordination Compounds
- Types of ligands (monodentate, bidentate, polydentate)
- Coordination number and geometry of complexes
- Isomerism in coordination compounds
- Valence Bond Theory
- Crystal Field Theory and color of complexes
- Chelation and stability of complexes

These topics represent key areas of coordination chemistry that help explain properties like **color, magnetism, and structure of complexes.**

Outcome

The presentation activity proved highly beneficial as it strengthened students' understanding of coordination chemistry. It improved confidence and public speaking skills and encouraged teamwork and collaborative learning. It further developed research-oriented thinking.

Conclusion

The PowerPoint presentation session organized under the guidance of Prof. Anamika Ramchaik was highly successful. It provided students with an opportunity to explore the depth of coordination chemistry while enhancing their academic and communication skills. Such activities play a vital role in making learning more interactive, effective, and application-oriented.