



CHILDRENS EDUCATIONAL SOCIETY (REGD.) The Oxford College of Science

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EVENT: Problem based learning on Unlocking the Mistry: rare earth element identification

Date and Time: 26.03.2024. 01:00 pm

Resource person: Dr. Soorya S Raj

Department of Chemistry

The Oxford College of Science

Number of students Participated: 30

On March 26, 2024, Dr. Soorya S. Raj conducted a Problem-Based Learning (PBL) session titled “Unlocking the Mystery: Rare Earth Element Identification” for undergraduate chemistry students. The session focused on the qualitative analysis of rare earth elements (REEs) through salt mixture identification, emphasizing systematic group separation and confirmatory tests. Students, working in groups, performed hands-on experiments using techniques such as selective precipitation, flame tests, and reagent reactions to identify REEs. Dr. Raj provided guidance, evaluated their findings, and highlighted the importance of precision in qualitative analysis. The session successfully enhanced students' critical thinking, problem-solving skills, and understanding of REE identification's significance in science and industry.