Report on

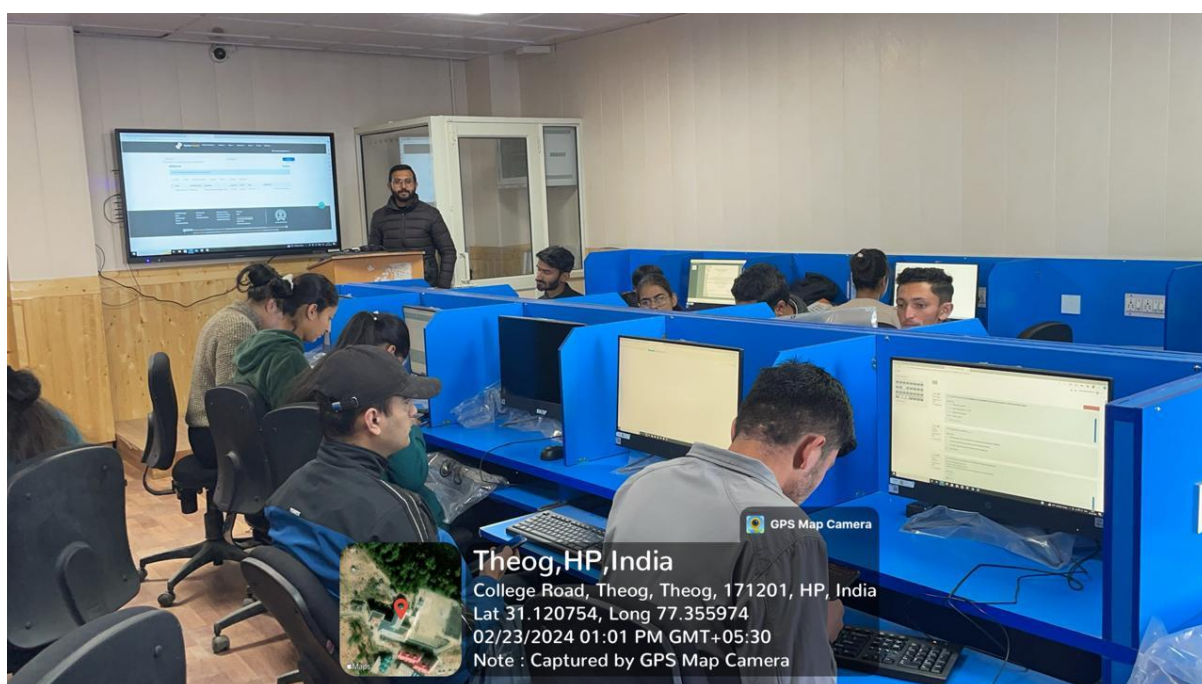# Add-On Course Training: Avogadro

Date: Februray,2024
Course: Add-On Course: Avogadro for BSc 2nd Year Students
Instructor: Dr. Vikas Nathan
Location: [Classroom/Online Platform]

1. Introduction

The add-on course focused on Avogadro, a molecular modeling software, and was delivered through IIT Bombay's Spoken Tutorials. The training aimed to enhance students' skills in molecular visualization and computational chemistry using Avogadro.

2. Course Overview

Course Content:

- **Introduction to Avogadro:** Basic features, user interface, and installation.

- **Molecular Visualization:** Techniques for visualizing molecular structures, including bonds and atom types.

- **Molecular Modeling:** Building and editing molecular models, applying force fields, and conducting molecular simulations.

- **Practical Applications:** Use of Avogadro in research and practical scenarios.

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Teaching Method:

- **Pre-Recorded Tutorials:** Instructional videos provided by IIT Bombay Spoken Tutorials, covering various functionalities of Avogadro.

- **Hands-On Sessions:** Practical exercises and assignments for students to apply what they learned.

3. Training Activities

1. **Tutorial Viewing:**

   o Students watched pre-recorded videos demonstrating Avogadro's features and functionalities.

2. **Practical Exercises:**

   o **Basic Tasks:** Building simple molecular structures and exploring basic features.

   o **Advanced Tasks:** Performing molecular simulations and analyzing results.

3. **Interactive Sessions:**

   o Q&A sessions to address queries and clarify doubts regarding the use of Avogadro.

4. **Assignments:**

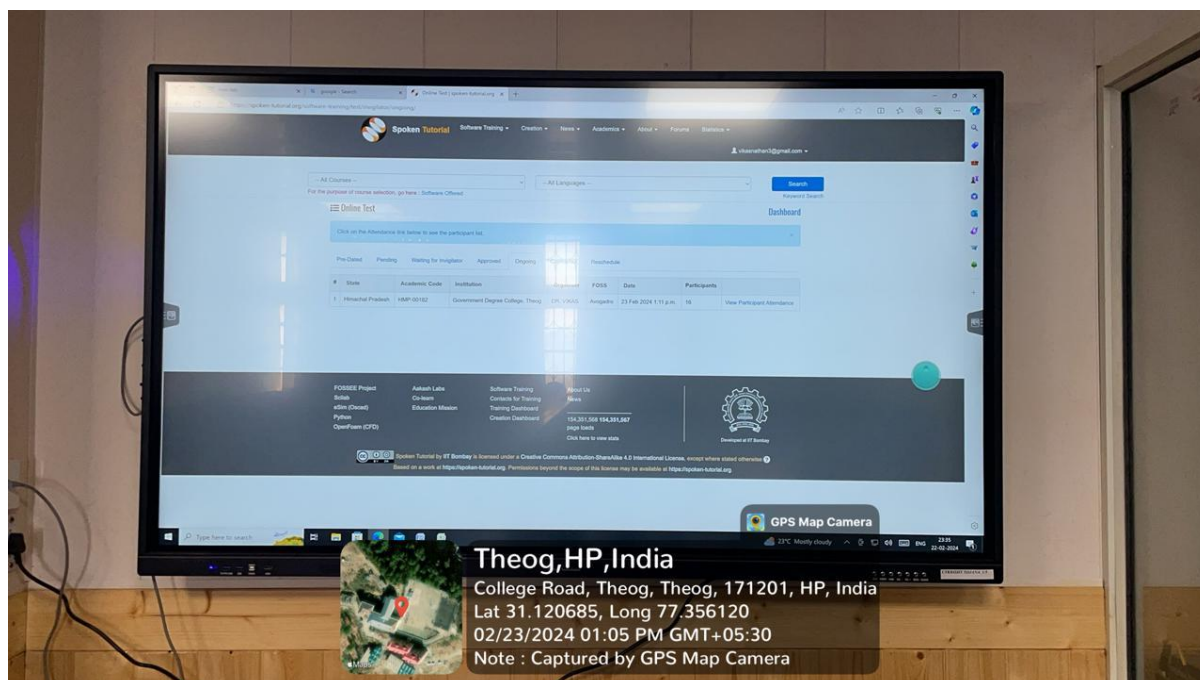   o Students completed assignments that involved using Avogadro to model and analyze various molecules.
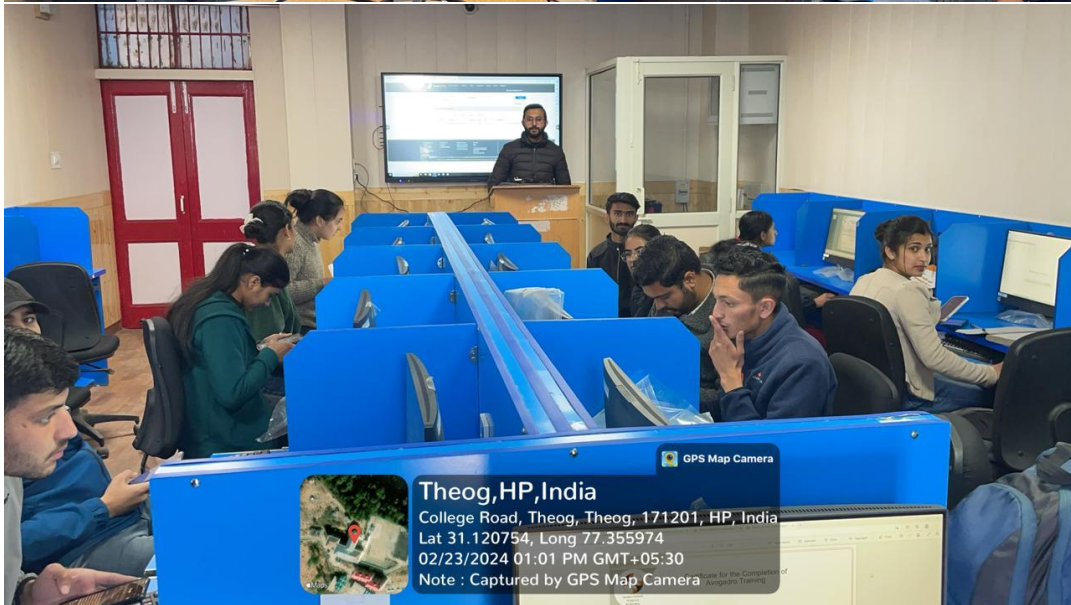
4. Outcomes and Observations

- **Skill Development:** Students gained practical skills in molecular modeling and visualization using Avogadro.

- **Engagement:** High engagement in practical exercises and active participation in interactive sessions.

- **Application:** Improved ability to use computational tools for understanding molecular structures and simulations.
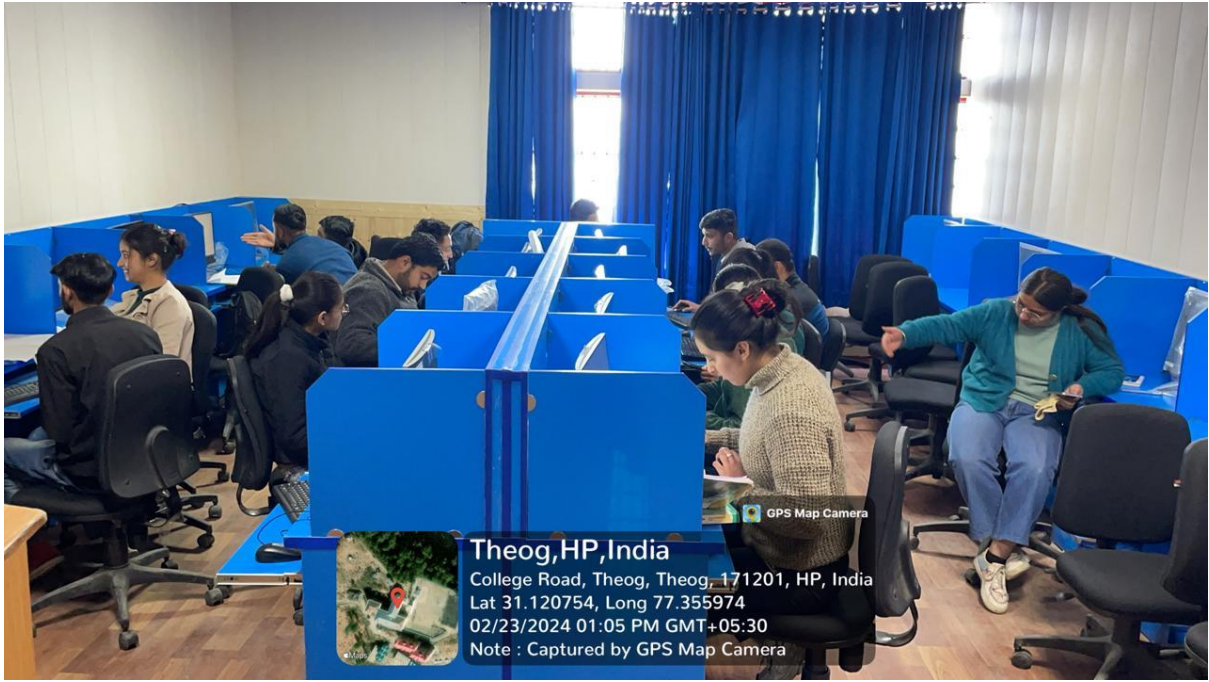
5. Conclusion

The add-on course on Avogadro effectively introduced BSc 2nd-year students to advanced molecular modeling techniques. The integration of IIT Bombay's Spoken Tutorials with hands-on practice facilitated a comprehensive learning experience.

This report highlights the key aspects and outcomes of the Avogadro add-on course, emphasizing its impact on students' learning and practical skills.

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