



**VIT<sup>®</sup>**  
**BHOPAL**

15.07.2024

**INTERNSHIP COMPLETION CERTIFICATE**

This is to certify that **Mr. Vipransh Ojha**, a student of **VIT Bhopal University**, has successfully completed his internship under my supervision as part of the SERB sponsored **CRG Research Project (CRG/20221002761)**.

The internship was carried out during the period **May 2024 – June 2024**. During this time, he contributed to the ongoing computational chemistry research work by developing a molecular visualization tool from scratch. This tool, MolSpectra, has the following features:

- A user-friendly interface built using PyQt.
- Seamless integrations with Open Babel, Gaussian, GAMESS, NWChem, and MOPAC.
- Advanced visualization capabilities using GLEW for rendering molecules dynamically.
- A streamlined workflow for molecular simulations, from structure creation to quantum chemistry calculations, engaging in project-related tasks, carrying out literature review, data analysis, and assisting in the preparation of technical reports.

His performance throughout the internship was found to be sincere, diligent, and satisfactory.

I wish him success in all his future academic and professional endeavors.

**Dr. Sumit Mittal,**

Sr. Assistant Professor

VIT Bhopal University,

Kothri Kalan, Bhopal-Indore Highway, Bhopal Madhya Pradesh 466114

Email: [sumit.mittal@vitbhopal.ac.in](mailto:sumit.mittal@vitbhopal.ac.in)

Mobile: +919318325748

Kotrikalan, Bhopal-Indore Highway, MP – 466114 ☎ +91 – 755 – 2424555

E-mail: [admin@vitbhopal.ac.in](mailto:admin@vitbhopal.ac.in)

**[www.vitbhopal.ac.in](http://www.vitbhopal.ac.in)**