

Proposal for announcing seat under the Institute Internship Program

1. **Name of faculty member proposing:** Dr. Rohidas Gangaram Bhoi
2. **Department/Centre:** Chemical Engineering
3. **Topic on which work is proposed:** Documentation on Safety Practices Followed in Hexane Industry
4. **Preferred period of internship** (after May 20th): Between 20th May 2024 to 21st June 2024
5. **Qualification of student** (branch/semester of study): Students who completed his/her 6th semester of Chemical Engineering or Graduate in Chemical Engineering or MSc Degree in Chemistry.
6. **Brief description of work:**

Hexane is derived as petroleum fraction and wide sue in chemical industries. It is a volatile, flammable, and potentially hazardous chemical compound commonly used in various industrial processes, including the production of glues, adhesives, and solvents. It is imperative that the safety in handling hexane is of paramount importance in these industries. The work involves detailed review of properties of hexane, its handling practices in industries. A data related to current and advanced methodologies practiced by industries, and organizations involved in manufacturing, storage, transportation, and handling of hexane in compliance with the regulatory requirements need to be collected. The intern will prepare a brief report and identify the gaps in industrial practices.
7. **Expected learning of student:**

The students will learn about the manufacturing process of hexane, recent advancement in its synthesis routes and its comparison to the commercially avavailable processes. Student will also learn the techniques of process intensification and its relevance to hexane industries.
8. **Nature of work:** Data collection and analysis
9. If the seat is under project sponsored category: **Yes/No**



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Signature of faculty member
Chemical Engineering