



# राष्ट्रीय प्रौद्योगिकी संस्थान रायपुर

NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR

(An Institute of National Importance)

Under Ministry of Education, Government of India



## DEPARTMENT OF CHEMICAL ENGINEERING

### ❖ ABOUT THE NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR AND CHEMICAL ENGINEERING DEPARTMENT

The National Institute of Technology Raipur, formerly known as Government College of Mining and Metallurgy, was established on 1st May 1956. The institute is dedicated to the development of technical education, producing skilled graduates in the field of engineering and technology. The development of India as an emerging industrial power requires the combination of cost-effectiveness and efficiency, along with the production of world-class technology. For over five decades, NIT Raipur has been committed to this goal. The Chemical Engineering Department at NIT Raipur offers B.Tech. (Chemical Engineering), M.Tech. (Energy & Environment) and Ph.D. programs.

### ❖ DEPARTMENT STRENGTH

In addition to its academic programs, the Chemical Engineering department also provides research and development, testing, and consultancy services to address real-time Chemical Engineering and environmental issues. These services cover areas such as Environmental concerns, Water sample testing and analysis, Cement, Clay, Ash, Minerals, Refractory Materials & Ore Chemical Analysis, Coal sample analysis, Plywood & Pre-laminated Board Testing, and many more. It has gained extensive recognition in the industry due to its strong reputation built on years of service excellence and expertise. The Department has successfully completed numerous research, consultancy, and testing projects, and its team of professionals and experts is committed to delivering high-quality services to clients across various industrial sectors.

### ❖ DEPARTMENT RESOURCES

The Department of Chemical Engineering boasts state-of-the-art labs specializing in Chemical Engineering as well as Energy & Environment. These labs are furnished with advanced equipment, including Particle Size Analyzer, Zeta Potential, Contact angle analyzer, Electrochemical Workstation (OCP, Tafel, EIS, CV etc.), Rheometer, FTIR, HPLC, TGA, Total Organic Carbon (TOC) Analyzer, BET Surface Area Analyzer, Ion Chromatography, UV-Visible Spectrophotometer test facilities. The department's proficient faculty and technical staff are adept at utilizing a diverse range of instruments and software. This proficiency significantly enhances their ability to expedite research, consultancy, and testing project progress.

### ❖ Key Services of Chemical Engineering Department

1. **Testing and analysis of Water samples**
2. **Chemical Analysis of Cement, Clay, Ash, Minerals, Refractory Materials & Ore etc.**
3. **Coal sample analysis**
4. **Plywood & Pre-laminated Board Testing**
5. **Environmental Concern and many more...**



Scan for the details of testing and consultancy charges and about Department of Chemical Engineering

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Scan for details about the Research Profile of NIT Raipur

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