

NAYAN KAILAS BARI

B.Tech. - Chemical Engineering

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BRIEF SUMMARY

"To obtain a challenging role as a Chemical Engineer in a reputable organization where I can utilize my technical knowledge and experience in designing, developing, and implementing innovative solutions for complex chemical processes and systems, while continuously improving and enhancing my skills."

KEY EXPERTISE

Microsoft Excel Matlab Aspen HYSYS Aspen Plus HTRI Exchanger ANSYS DwSim Aspen EDR Chemcad

EDUCATION

MIT Academy of Engineering, Pune

B.Tech. - Chemical Engineering | CGPA: 8.97 / 10.00

Government Polytechnic Thane, Thane
Diploma | Diploma - Chemical Engineering | MSBTE | Percentage: 91.83 / 100.00

Sarswati Vidya Mandir, Yawal

INTERNSHIPS

Bhusawal Thermal Power Station

10th | MSBSHSE | Percentage: **91.40** / **100.00**

Internship Trainee

Key Skills: Boilers Emissions Combustion Maintenance Efficiency

In 6 weeks of inplant training, I Learned about how they are converting chemical energy to thermal energy then to kinetic energy then it is converted

into mechanical energy and at last to electrical energy, i.e. Electricity.

Tata Steel 01 Jun, 2020 - 31 Jul, 2020

Key Skills: Process Safety Heat Treatment Metallurgy Casting

In 8 weeks of virtual training, I Learned about how they are converting raw material i.e. iron ore to usable substance i.e. Steel.

PROJECTS

Synthesis Of Biodisel From Extracted Senna Tora Seeds Oil And Optimization Study.

01 Aug, 2022 - 31 Dec, 2023

12 Jun. 2023 - 22 Jul. 2023

Mentor: Dr. Abhijeet D. Patil | Team Size: 3

Key Skills: Soxhlet extractor Separation Technics Process Safety Recovery Yield

As a team leader, The outcome of an extraction of oil and biodiesel from Senna tora seed and optimization project is to gain knowledge and skills in the extraction of oil from Senna tora seeds, its suitability for biodiesel production, and optimization of bodiesel from senna tora oil seeds by using transesterification process and results the properties are meet with other biodiesel products.

Thermal Design of Evaporative Condenser.

01 Aug, 2020 - 30 Jun, 2021

Mentor: Mrs. S. M. Wasake | Team Size: 3

Key Skills: Evaporative Condenser Equipment Design MATLAB ANSYS Excel

As a team leader, The outcome is to understanding of heat transfer principles, simulation techniques such as computational fluid dynamics (CFD) and main advantage of evaporative condenser is energy conservation, two evaporative condenser, replace system of 5 condenser, 5 cooling tower and 10 water circulation pumps which result in huge power saving.

ACHIEVEMENTS

- 1st Price In State Level General Knowledge And Aptitude Competition At Government Polytechnic, Jalgaon.
- 2nd Rank In State Level Poster Presentation Competition At Bharati Vidyapeeth College Of Engineering, Navi Mumbai
- 2nd Rank In State Level Technical Quiz Competition At Bharati Vidyapeeth College Of Engineering, Navi Mumbai.

ASSESSMENTS / CERTIFICATIONS

CFD Simulation Through a Centrifugal Pump

Key Skills: Boundary Conditions Design Modeler Meshing Plots

By completing a CFD Simulation Through a Centrifugal Pump course, I have gained expertise in utilizing computational fluid dynamics to analyze and optimize the performance of centrifugal pumps. This includes assessing the impact of various design parameters on pump efficiency, reliability, and overall effectiveness. I am proficient in using CFD software and have developed skills in designing and implementing simulation studies, as well as interpreting and presenting results. Through this course, I have developed a strong understanding of fluid dynamics and its applications in pump

Link: https://coursera.org/verify/5S8CWXLE52EW

Safety in the Utility Industry

Key Skills: Audits Communications Maintenance

The utility industry prioritizes safety by implementing various measures such as strict regulations, training programs for employees, and regular safety audits. This helps prevent accidents, protect workers and the public, and maintain the reliability of essential services such as electricity and water.

Link: https://coursera.org/verify/PHVPU92BT5S8

SEMINARS / TRAININGS / WORKSHOPS

Instrument And Control System Institute Name: Tata Steel

06 Apr, 2020 - 05 May, 2020

Key Skills: Process Control Instruments Process Instrumentation And Control Troubleshooting

The outcome of an instrument and control system training is to learn the knowledge and skills necessary to design, install, operate, maintain, and troubleshoot instrumentation and control systems in industrial settings. This includes a comprehensive understanding of sensors, transmitters, actuators, control valves, and control algorithms, as well as experience in SCADA system design, maintenance, and troubleshooting.

Industrial Water System

10 Mar, 2020 - 18 Apr, 2020

Institute Name: Tata Steel

Key Skills: Water Treatment Plant Operations Aspen HYSYS Process Safety

Water Treatment Technologies

An industrial water treatment plant training aims to learn with a comprehensive understanding of water treatment technologies, processes, and regulations, as well as the ability to design, operate, troubleshoot, and maintain water treatment systems. The outcome of the training includes knowledge of water chemistry, contaminant removal methods, industrial regulations and standards, sustainability and environmental considerations.

CO-CURRICULAR ACTIVITIES

- Participated in "Technical Paper Presentation" at state level organized by MIT Academy Of Engineering, Pune.
- Participated in "Industrial Design Problem" Competition organized by Azeotropy 2022, Chemical Engineering Association, IIT Bombay.
- Participated in Paper Presentation in National Level Technical Symposium Chemstorm-2k23 organized by Pravara Rural Engineering College.Loni
- Participated in "Technical Paper Presentation" at state level organized by K.K.W.I.E.E.R.Nashik.

EXTRA CURRICULAR ACTIVITIES

- Worked as Executive member in IICHE (Indian Institute Of Chemical Engineers) at MIT Academy of Engineering, Pune.-2022-23.
- Events coordinator under IIC (Institution's Innovation Counsil) at MIT Academy of Engineering, Pune 2022-2023.

PERSONAL INTERESTS / HOBBIES

- Carrom
- Listening Music
- Reading Books
- Travelling

WEB LINKS

• Personal - https://nyanbari.github.io/nyanbari.github.io.com/

PERSONAL DETAILS

Gender: Male Marital Status: Single

Current Address: Near Mit Art And Science College, Alandi (D), Pune,

Maharashtra, India - 412105

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Date of Birth: 01 Apr, 2002

Known Languages: English, Marathi, Hindi, Sanskrit Permanent Address: House No-1639 A, Mahajan Lane, Near

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