

Mubashir Alam

LECTURER | POLYMER & PETROCHEMICAL ENGINEER



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Profile

Experienced postgraduate engineer with a proven record of academic and professional excellence. Possesses strong knowledge of Polymer and Petrochemical Engineering and a keen interest in advancing research and teaching in the field.

EXPERIENCE

Lecturer, NED University of Engineering and Technology 2025 – Present

Polymer & Petrochemical Department

- Delivered lectures and conducted labs in polymer and petrochemical engineering courses.
- Prepared teaching materials, assessments, and lab manuals.
- Evaluated student performance and supported undergraduate research projects.
- Applied modern teaching techniques to enhance student engagement and learning outcomes.

Senior Executive, Utopia Industries Pvt Ltd. 2022 – 2024

- Production planning, making SOP's and Audit documentation.
- Manage proper mixing ratio to achieved maximum output with high quality.
- Maintain all records of production (export).
- Identify issues in efficiency and suggest improvement in production through lean manufacturing.
- Manage KPI's and Preventive maintenance.

Assistant Engineer, Krystalite Products and Pvt Ltd. (GATRONOVA Group) 2021 – 2022

- Responsible to ensure production according to plan with minimum down-breaks, lines maintenance and also involve in sampling or trials of new variant.
- Supervise VACUREMA in combination with leading sheet plant SML (AUSTRIA TECHNOLOGY).
- Manage proper mixing ratio to achieved maximum output with high quality for Thermoforming.
- Maintain all records of production & packing with customer wise in SAP and Audit documentation.

Production/Process Engineer, MUSTAQIM INDUSTRIES (GATRONOVA GROUP) 2020 – 2021

- Responsible to supervise Plastic Recycling Processes in sorting, shredding, washing, and melting plastic materials for recycling.
- Daily plant operations, ensuring adherence to production schedules and output targets of Melt blown plant.
- Training and managing production staff and machine operators.
- Implementing and maintaining quality control systems to ensure recycled materials meet industry standards.

Production Supervisor, Mundia Exports

2019 – 2020

- Simulation and Operation of SMS plant (non woven fabric plant).
- Plant troubleshooting like (web cleaning, filter and die cleaning) through super sonic process.
- Plant management (production and material)

INTERNEE, GENERAL TYRE AND RUBBER COMPANY

2018

Learned different recipes of rubber compounds for both Bias and Radial tires, utilizing diverse rubber materials. I've analyzed the manufacturing workflow, assessing the effectiveness of individual units. Additionally, I possess extensive knowledge of vulcanization chemistry and its implications in tire production.

EDUCATION

Master's in Engineering Management (Industrial Management),
NED University of Engg. & Tech.

2021 – 2024

Bachelor's in Polymer and Petrochemical Engineering,
NED University of Engg. & Tech.

2015 – 2019

Intermediate (Pre-Engineering), Kent College Of Science and Commerce

2015

Matriculation (Science), Farah Memorial Academy

2012

EXPERTISE

• Project Management	• Minitab and Matlab
• Presentation & Communication	• SAP
• Decision Making	• Microsoft Office
• Leadership & Management	• Aspen

Projects

Bio mass Incorporated with Low Density Poly Ethylene, Final Year Project

2019

Formulation of LDPE sheets to increase its mechanical and thermal properties and also make it cost effective. The key parameters; LDPE and Rice Husk.

Analysis of fiber glass composition and properties

2018

Determination of mechanical properties of fiber glass sheets on different composition and orientation. Analyzed the relationship of volume fraction with fiber-matrix properties