

Curriculum vitae

Mukesh Kumar

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Jhinhak, Kanpur Dehat – 209302



OBJECTIVE:

As a dedicated professional in the plastic and polymer industry, I hold an MTech in Plastic Engineering and an M.Sc. in Polymer Chemistry. With hands-on experience in polymer processing and material characterization, I am committed to advancing sustainable practices and innovations in product development. My goal is to leverage my technical expertise to contribute to impactful projects in the plastics sector.

EXPERIENCE:

1. Machino Polymer Ltd.

- A company specializing in plastic and polymer engineering.
- Conducted polymer processing, including injection molding and quality control assessments.
- Assisted in the formulation and testing of plastic components for automotive applications.
- Performed material characterization and troubleshooting of polymer defects.
- Worked on process optimization to enhance production efficiency.
- Collaborated with cross-functional teams to ensure compliance with industry standards.

2. Contributed as a member of the technical committee for the APM-2025 International Conference. Assisted in reviewing technical papers, coordinating with authors and reviewers, and ensuring the smooth execution of the conference's technical sessions.

EDUCATION:

M. Tech in Plastic Engineering

Central Institute of Petrochemicals Engineering and Technology (CIPET)
Affiliated With (Dr. A. P. J. Abdul Kalam Technical University, AKTU)

Lucknow, Uttar Pradesh

OCT/2023 - JUN/2025

M.Sc. in Chemistry

Chhatrapati Shahuji Maharaj University

Kanpur, Uttar Pradesh

2022

B.Sc. in Chemistry

Chhatrapati Shahuji Maharaj University

Kanpur, Uttar Pradesh

2020

Higher Secondary (Science) U.P Board

Ranjeet Pratap Girls Inter College

Lachhiamau, Auraiya U.P

2016

High School (HSC) U.P Board

Ranjeet Pratap Higher Secondary School

Lachhiamau, Auraiya U.P

2014

STRENGTHS:

Analytical Mindset

Analytical mindset with strong problem-solving skills

Proactive Learner

Proactive learner with a disciplined work ethic

Collaborator

Team collaboration and independent project execution

Technical Documentation Skills

Excellent technical documentation and reporting skills

SKILLS:

- Polymer Composite Preparation and Characterization
- Processing of Reinforced Plastics (Extrusion, Injection Molding, Compression Molding)
- Polymer Recycling and Sustainable Composite Development
- Material Testing and Analysis (Mechanical, Thermal, Morphological)
- Handling of Testing Instruments: UTM, DSC, TGA, FTIR, XRD, SEM
- Research Work on Fillers and Fiber Reinforced Composites
- Batch Formulation and Optimization of Polymer Composites
- Literature Review and Research Paper Writing
- Data Analysis, Report Preparation, and Presentation Skills
- Knowledge of Laboratory Safety and Good Laboratory Practices (GLP)
- Software Skills: MS Office (Word, Excel, PowerPoint)

PROJECTS:

Eco-Friendly Hybrid Composites

- Development and Characterization of Eco-Friendly Hybrid Composites: Integrating Flax Fiber and Rock Wool.
- Designed hybrid composites using natural fibers (flax) and rock wool for enhanced sustainability.

Recycled Polypropylene Composites

- Mechanical and Thermal Properties of Recycled Polypropylene Composites Reinforced with Short Glass Fibers.
- Optimized recycled polypropylene composites with glass fibers, improving tensile strength by 15%.

CONFERENCES:

1. 16th INTERNATIONAL CONFERENCE On ADVANCEMENT IN PETROCHEMICAL SECTOR&EMPOWERING SUSTAINABLE DEVELOPMENTLEADING TO “VIKSIT BHARAT (APM-2025) in CIPET IPT LucknowUttar Pradesh.
2. 3rd International Conference CHEM-TECHNOVA 2025Harcourt Butler Technical University Kanpur Uttar Pradesh.

HOBBIES:

- Interactive with new people  Visit new places.

PERSONAL DETAILS:

NAME: MUKESH KUMAR

SEX: MALE

MARITAL STATUS: UNMARRIED

NATIONALITY: INDIAN

DATE OF BIRTH: 25/12/1999

LANGUAGES KNOWN: HINDI ,ENGLISH

ADDRESS: Vill- Mubarkpur, Pilakh, Jhinhak Kanpur Dehat 209302

DECLARATION:

I hereby declare that above information is true to the best of my Knowledge & belief.

PLACE:

Mukesh Kumar

DATE:

Sign.....