

BRIJESH KUMAR YADAV



+91-9415308397



brijeshkryadav.rs.che19@itbhu.ac.in



varanasi, Uttar Pradesh

PhD

SUMMARY

I am a dedicated and passionate researcher with a strong background in the field of Polymers and Polymer Composites. My research has focused on the development of advanced materials through the reinforcement of natural fibers into polymeric matrix.

SKILLS

Technical Skills

Proper monitoring of analytical instruments such as Universal Testing Machine (UTM), Melt flow index tester (MFI), Dart impact test, contact angle test, SEM, FTIR and XRD analysis.

Computer skills

Computer skills (MS Excel, MS Word & MS PowerPoint)

Soft Skills

Software needed for research work including Design-Expert, OriginLab and ImageJ.

EDUCATION

B.Tech: HBTI Kanpur Plastic Technology-Chemical Technology	65.78%	Jul 2012 - Jun 2016
M.Tech: IIT Roorkee Chemical Engineering	CGPA: 7.46	Jul 2016 - Jun 2018
My M.Tech thesis is in the field of natural fiber based polymer composites		
Ph.D: IIT BHU Polymer Composites	CGPA: 7.80	Jul 2019 - Jun 2024

INTERNSHIP

Quality Control Supreme Industries Limited , Ambala	Jun 2015 - Jul 2015
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CONFERENCES AND WORKSHOPS

- CHEMCON 2023, December 27-30, Heritage Institute of Technology, Kolkata, West Bengal
- ChEmference 2023, Department of Chemical Engineering BITS PILANI, K.K. BIRLA Goa campus
- A workshop on Water Urbanism for Resilient Development: Case studies from Varanasi, IIT(BHU) Varanasi, September 04-06, 2023

PUBLICATIONS

- Yadav BK, Yadav VL. Nano-clay treatment of jute fiber for reinforcement in polymer composites: Mechanical, morphological, and thermo-kinetic analysis. <https://doi.org/10.1177/07316844241233420>. (I.F 3.6)

2.Yadav BK, Vandna, Gond DK, Yadav VL. Nano clay treated jute fiber reinforced epoxy composites: Thermo-kinetic, morphological and mechanical analysis *Polymer Composites (I.F 5.2)*

3.Vandna, Gond DK, **Yadav BK**, Priyadarshan S, Yadav VL. Characterization and Synthesis of Biocomposite Film with Coir and Polyvinyl Alcohol/Polyethylene Glycol. *J Sci Ind Res.(I.F 0.6)*

4.Yadav BK, Vandna, Gond DK, Yadav VL. Developing a novel nano clay reinforced jute –epoxy hybrid composite: Preparation, properties and characterization(**Under review**)

HOBBIES AND EXTRA-CURRICULAR ACTIVITIES

1. Swimming
2. Cooking