Faculty Profile

1. Name: Dr. Nirupama

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6. Qualification:

S. No	**Degree (UG, PG, PhD)**	**Specialization**	**Institute**
1.	UG	Chemical Engineering	Punjab Technical University
2.	PG	Chemical Engineering	I.I.T. Roorkee
3.	PhD	Chemical Engineering	I.I.T. Roorkee

7. Area of Specialization: Polymer composites, Risk assessment

8. Subjects Taught: Safety and hazards in Chemical Industry, Process control and instrumentation, Heat transfer

9. Professional Experience:

I) Teaching Experience:

Sl. No.	**Position held**	**Name of Organization**
1.	Assistant Professor (Under NPIU-TEQIP)	B.I.T. Mesra, Ranchi
2.	Visiting Assistant Professor	B.I.T. Mesra, Ranchi
3.	Assistant Professor	B.I.T. Sindri, Dhanbad

II) Research Experience:

Sl. No.	**Position held**	**Name of Organization**	**From**	**To**

III) Industrial Experience:

Sl. No.	**Position held**	**Name of Organization**
1.	Process Engineer	PDIL, Noida, New Delhi

11. Publications:

I) International Journal:

Sl. No.	**Title of the paper**	**Name of the journal in which publication has been made**	**Acceptance year**
1.	Physico-mechanical properties of coir fiber/LDPE composites: Effect of chemical treatment and compatibilizer	Korean Journal of Chemical Engineering	2015
2.	Banana Fiber Reinforced Low-density Polyethylene Composites: Effect of Chemical Treatment and Compatibilizer	Iranian Polymer Journal	2016
3.	Thermal degradation of coir fiber reinforced low-density polyethylene (LDPE) composites	Science and engineering of composite materials	2016
4.	Hybridization effect of coir fiber on physico-mechanical properties of polyethylene-banana/coir fiber hybrid composites	Science and engineering of composite materials	2016
5.	Cadmium removal from aqueous solution by jackfruit seed bio-adsorbent	Springer Nature Applied Sciences	2020
6.	Thermo-chemical potential of solid waste seed biomass obtained from plant Phoenix dactylifera and Aegle marmelos L. Fruit core cell.	*Bioresource Technology*	2021
7.	Waste biomass valorisation of Bambusa vulgaris dust and Delonix regia pods: Characterization and kinetic study	*Sustainable Energy Technologies and Assessments*	2022
8.	Enhanced biogas production potential analysis of rice straw: Biomass characterization, kinetics and anaerobic co-digestion investigations	*Bioresource Technology*	2022
9.	Sustainable valorization of water hyacinth waste pollutant via pyrolysis for advance microbial fuel investigation	*Chemosphere*	2022
10.	Sustainable valorization of Cascabela thevetia fruit peel and seed waste biomass: characterization and thermo-kinetic analysis	*Biomass Conversion and Biorefinery*	2023

12. Conference/ Workshop/Seminar/ Organized

Sl. No.	Title of Seminar / Conferences / Short – term Courses	Name of Coordinator	Funding / Sponsoring Agency	Date of Seminar / Conferences / Short – term Courses	No. of Participants

13. Symposium/ Workshop/Seminar/ Attended

S.N	Workshop	Place	Duration
1.	Summer Training Programme on Advanced Pedagogies	IIT Hyderabad	June 10-14, 2019
2.	Faculty Induction Workshop	IIT Kharagpur	February 6-10, 2018
3.	Workshop on Industrial Process Simulation	BIT Mesra, Ranchi	May 16-20, 2018

14. Project Experience:

Sl. No.	Organization	Position	Description
1.	B.I.T. Mesra, Ranchi	PI	A research project entitled **"Development of nanofiller reinforced ionomer-based polymer nano-composite for radio freq. absorber"** under "TEQIP Collaborative Research Scheme" with a grant of ₹1460000 (Rupees Forteen Lakh Sixty Thousand Only).