

Faculty Profile



- 1. Name:** Dr. Ashok Kumar Baranwal
- 2. Department:** Chemical Engineering
- 3. Email id:** ashokbit2k5@gmail.com; akb.che@bitsindri.ac.in
- 4. Phone Number:** 9113751108
- 5. Office Address:** Department of Chemical Engineering, BIT Sindri, Dhanbad-828123
- 6. Qualification:**

S. No	Degree(UG, PG, PhD)	Specialization	Institute
1.	PhD	Computational Fluid Dynamics (Chemical Engineering)	IIT Kanpur
2.	MTech	Petroleum Engineering	IIT (ISM) Dhanbad
3	BSc Egg.	Chemical Engineering	BIT Sindri

7. Area of Specialization: Computational Fluid Dynamics (CFD), Rheology of Complex Fluids, Modeling of Non-Newtonian Fluids

8. Subjects Taught: Fluid Mechanics, Heat Transfer, Computational Fluid Dynamics, Multiphase Flow, Micro fluidics.

9. Professional Experience:

I) Teaching Experience:

Sl. No.	Position held	Name of Organization	From	To
1.	Assistant Professor	BIT Sindri	29/01/2022	Present
2.	Assistant Professor (On Regular)	BIT Mesra	03/03/2020	28/01/2022
3.	Assistant Professor (NPIU, Under Teqip III)	BIT Mesra	02/01/2018	02/03/2020

4.	Assistant Professor	NIET Greater Noida	July, 2017	December, 2017
5.	Guest Faculty	HBTI Kanpur	August, 2011	December, 2011

II) Industrial Experience:

- Three-week training from 17/5/2010 to 28/5/2010 at ONGC ANKLESHWAR GUJARAT, India.
- Three-week training from 20/6/2008 to 10/7/2008 at IOCL BARAUNI, India.

10. Publications:

I) International Journal: (Total Citations: 92)

(<https://scholar.google.com/citations?user=7mHaKVgAAAAJ&hl=en>)

Sl. No.	Title of the paper	Name of the journal in which publication has been made	Vol/No.	Publication Year	Pages
1.	Effect of Prandtl number on free convection from two cylinders in a square enclosure	<i>Heat Transfer Engineering</i>	37	2016	545-556
2.	Free convection in confined power-law fluids from two side - by - side cylinders in a square enclosure	<i>Heat Transfer Engineering</i>	37	2016	1521-1537
3.	Effect of Prandtl number on free convection in Newtonian and power - law fluids from a cylinder adjacent to an adiabatic wall	<i>Computational Thermal Sciences</i>	8	2016	73-98
4.	Effect of fluid yield stress on natural convection from horizontal cylinders in a square enclosure	<i>Heat Transfer Engineering</i>	38	2017	557-577
5.	Laminar forced convection in power law fluids from two heated horizontal cylinders in a square duct	<i>International Journal of Heat and Mass Transfer</i>	113	2017	589-612
6.	Effect of fluid yield stress on free convection from an isothermal cylinder adjacent to an adiabatic wall.	<i>Computational Thermal Sciences</i>	9	2017	483-511
7.	Laminar Free convection in	<i>Heat Transfer Engineering</i>	40	2018	1574-

power law fluids in a right-angle triangular duct with heated base	<i>Engineering</i>			1599
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II) International Conferences:

Sl. No.	Name of the Conferences in which publications has been made
1.	Fluid Mechanics and Fluid Power (FMFP) – Contemporary Research Part of the series Lecture Notes in Mechanical Engineering, Springer, Pages 395-403, 2016. Online ISBN 978-81-322-2743-4.
2.	5-6 th Thermal and Fluids Engineering Conference (TFEC) 2021 , 26-28 th May at New Orleans, USA. Pages 835-844. DOI: 10.1615/TFEC2021.fnc.032097. ISBN: 978-1-56700-517-2.
3.	Recent Trend on Fluid Dynamics Research (RTFDR-21) , Lecture Notes in Mechanical Engineering, Springer, Singapore, Pages 87-101, Jan 2022. DOI: 10.1007/978-981-16-6928-6. ISBN 978-981-16-6928-6.

International / National Conferences Attended

- 5th International and 41st national conference on fluid mechanics and fluid power (**FMFP**), IIT Kanpur, 12-14th December 2014.
- 10th Annual European Rheology Conference (**AERC**), Nantes (France), 14-17th April 2015.
- 8th International and 47th national conference on fluid mechanics and fluid power (**FMFP**), IIT Guwahati, 9-11th December 2020.
- Recent trends in fluid dynamics research (**RTFDR-21**) a national e-conference, NIT Rourkela, 2 – 4th April 2021.
- Virtual International Conference on “**Soft Computing, Optimization Theory and Applications**” BIT Mesra, Ranchi 26-27th March 2021.

11. Symposium/ Workshop/Seminar/ Attended

- FDP in **Teaching Learning** Centre, IIT Madras, 31st January – 4th February 2018.
- Workshop on “**Industrial Process Simulation**”, BIT Mesra Ranchi, 16–20th May 2018.
- Summer Training program on Advanced Pedagogies: **Active Learning and Digital Tools**, IIT Hyderabad, 10 – 14th June 2019.
- Workshop on “**Prevention of Harassment at Workplace**”, BIT Mesra Ranchi, 25th June 2019.
- Workshop on “**Intellectual Property Rights & Patent Filing**”, BIT Mesra Ranchi, 28th June 2019.
- Webinar on “**Why A Manuscript is Rejected**”, NIT Jalandhar, 27 August 2020.

7. Webinar on “**IT not only enabler, but critical element of engineering and business operation**” NIT Jalandhar, 5th September 2020.
8. Short term course on “**Mathematical modelling of complex fluids**”, NIT Jalandhar, 24-28th September 2020.
9. 5-day online FDP on “**Inculacating Universal Human Values in Technical Education**” organized by AICTE from 14 June 2021 to 18 June 2021.
10. 5-day online FDP on “**Microfluidics, Soft Matter and their applications**” organized by NIT Calicut, Kerala during 6 – 10th September 2021.
11. NITTR (National Institute of Technical Teacher Training) training program FDP 8-week on Module 6_ **Student Assessment and Evaluation** during Sept-Oct 2021.
12. NITTR training program FDP 8-week on Module 1_ **Orientation Towards Technical Education and Curriculum Aspects** during Sept-Oct 2021.

Presentations in Conference/Seminar/Webinar/ Workshop:

1. Invited talk on “Non-Newtonian Fluid Flow and Heat Transfer from Bluff Body” in TEQIP III Sponsored One Week Workshop on Industrial Process Simulation organized by Department of Chemical Engineering, BIT Mesra, Ranchi, **16th – 20th May 2018.**

12. Gate Rank: 465

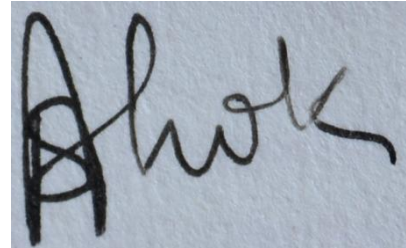
13. Personal Profile:

Father’s Name	:	Sri Radhey Shyam Baranwal
Mother’s Name	:	Smt. Sumitra Devi
Date of birth	:	08/10/1983
Gender	:	M
Category	:	General
Category for Jharkhand state	:	General
Permanent State	:	Jharkhand
Nationality	:	Indian
Languages Known	:	Hindi, English, Khortha
Permanent Address	:	Ram Krishna Murari, Krishna Digital, Makatpur, Near Shivam Clinic, Barganda Road, Giridih-815301
Present address	:	Department of Chemical Engineering, BIT Sindri, Dhanbad-828123

Declaration:

I hereby declare that the above furnished particulars are true and the best of my knowledge and belief

Place: Dhanbad

A handwritten signature in black ink on a light blue background. The signature is written in a cursive style and appears to read 'Alok'.

Signature