

Name of Faculty Dr. Raj Kumar Verma
 Designation Assistant Professor
 Nature of Job/Appointment Regular
 Date of Joining 16/05/2022
 E-mail rajkumar_chem@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Chemical Engineering)	Awarded
PG	M. Tech (Chemical Engineering)	First
UG	B. Tech (Chemical Engineering)	First
Work Experience	3.0 Years	
Teaching	2.7 Years	
Research	0.3 Years	
Industry	--	
Others	--	
Area of Specialization	Process Intensification, Modeling and Simulation, Multiphase flow, Microfluidics, Biofuels, Computational Fluid Dynamics, Waste to Energy	
Professional Memberships	--	
Responsibilities held at Institution Level	Worked as Volunteer in COMPFLU-2018, An international conference organized by Department of Chemical Engineering, IIT Roorkee	
Responsibilities held at Department Level	1. Class Teacher B. Tech 3 rd Year 2. UG 4 th Year Project coordinator 3. Discipline coordinator	
Research Guidance	1. UG students (04 Nos.)	
Awards Received	1. Graphical abstract is selected for cover page in I&EC Research Journal of an issue 16, Volume-59.(ACS publication). 2. One of my research article in ChemBioEng Reviews Journal (Wiley Online Library) is the most read and downloaded article in the year 2018-19. 3. Awarded with MHRD fellowship to pursue M. Tech. and Ph.D. in Chemical Engineering at IIT Roorkee, India in the year 2012 and 2016, respectively	
Courses Handled at Under Graduate / Post Graduate Level.	Mass Transfer Operation, Chemical Reaction Engineering, Transport Phenomena, Computational Fluid Dynamics, Process Modeling and Simulation	
No. of Papers Published	National Journals – Nil	International Journals – 06
	National Conference – 01	International Conference – 01
Projects Carried out	--	

Patents	01 Published
Technology Transfer	--
Invited Speaker	--
No. of Books/Chapter Published with details	--

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops/Other Trainings (Attended and/or Organized).

AICTE Recognized Faculty Development Programme **on Smart Materials Processing and Applications** Conducted by National Institute of Technical Teachers Training and Research (NITT) Chandigarh Punjab, India from 25/07/2022 to 29/07/2022

Details of Journal Publications/ Conferences (National and International)

International Journal from the year 2017

1. Verma, R.K., Prakash, R., Mehta, A., Ghosh, S. Biodiesel production in a serpentine minireactor— Effect of flow distribution. International Journal of Energy Research, 2019, 43 (8), 3461-3474. IF: 5.164 doi:10.1002/er.4488. ISSN/ISBN- 1099-114X.
2. Verma, R.K., Ghosh, S. Two-Phase Flow in Miniature Geometries: Comparison of GasLiquid and Liquid-Liquid Flows. ChemBioEng Reviews, 2019, 6 (1), 5-16. IF:2.927. doi:10.1002/cben.201800016. ISSN-2196-9744
3. Prakash, R., Verma, R.K., Ghosh, S. Liquid-liquid mass transfer in a serpentine miniature geometry-effect on pressure drop. Chemical Engineering Journal, 2019, 369, 489-497. IF:13.27. doi:10.1016/j.cej.2019.03.064. ISSN-1385-8947.
4. Verma, R.K., Ghosh, S. Comparison of slug breakup for confined liquid-liquid flows in serpentine mini geometry, Industrial & Engineering Chemistry Research, 2020, 59 (16), 7955-7964. IF:3.72. doi:10.1021/acs.iecr.0c00009. ISSN- 1520-5045
5. Verma, R.K., Ghosh, S. Effect of phase properties on liquid-liquid two-phase flow patterns and pressure drop in serpentine mini geometry, Chemical Engineering Journal, 2020, 397, 125443. IF:13.27. doi:10.1016/j.cej.2020.125443. ISSN-1385-8947.
6. Verma, R.K., Ghosh, S. Curvature Induced Intensification of Biodiesel Synthesis in Miniature geometry. Chemical Engineering and Processing: Process Intensification, 2021, 163, 108363. IF:4.237. doi.org/10.1016/j.ccep.2021.108363. ISSN-0255-2701

International /National Conferences from the year 2017

1. Verma R.K., Ghosh, S. Reactive and non-reactive liquid-liquid dispersed flow in a serpentine mini reactor. International conference of Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT-2019), (22-24, July), 2019, Wicklow, Ireland.
2. Verma R.K., Ghosh, S. Effect of hydrodynamics on kinetics of transesterification reaction in a serpentine mini reactor. CHEMCON, 2018, NIT Jalandhar, Jalandhar, India.

Articles contributed in Encyclopedia: -
Popular Articles in Magazine: -