

Name of Faculty	Dr. Snigdha Saha	
Designation	Assistant Professor	
Nature of Job/Appointment	Regular	
Date of Joining	22-07-2026	
E-mail	snigdhasaha_chem@cbit.ac.in	
Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Chemical Engg.) NIT WARANGAL	Awarded
PG	M.Tech. (Chemical Engg.) IIT GUWAHATI	First
UG	B.E. (Chemical Engg.) R.I.T.E.E. (CSVTU, BHILAI)	Honours
Work Experience		
Teaching	2 Years 8 Months	
Research	06 years (as Research Scholar in NIT Warangal)	
Industry	--	
Others	--	
Area of Specialization	Electrochemical Sensor Development, Electrochemical Energy Storage Systems, Flow Batteries, Computational Fluid Dynamics (CFD), and Hydrometallurgical Battery Recycling	
Professional Memberships	--	
Responsibilities held at Institution Level	--	
Responsibilities held at Department Level	--	
Research Guidance	--	
Awards Received	--	
Courses Handled at Under Graduate / Post Graduate Level.	• Process Modeling and Simulation (SEM V) • Environmental and Sustainable Development (SEM VII) • Artificial Intelligence in Chemical Engineering LAB (VII)	
No. of Papers Published	National Journals – 0	International Journals – 5
	National Conference – 0	International Conference – 2
Projects Carried out	--	
Patents	--	
Technology Transfer	--	
Invited Speaker	--	
No. of Books/Chapter Published with details	--	

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops. Other Training (Attended and/or Organized).	--
Details of Journal Publications/Conferences (National and International)	1. Saha, S. & Patnaikuni, V. S. <i>Performance analysis of novel inter-serpentine hybrid flow field design for vanadium redox flow battery applications</i>. Journal of Power Sources, 691, 241008 (2026). (Impact Factor: 8.4) 2. Saha, S., Patnaikuni, V. S., Maniam, K. K., & Paul, S. <i>Three-dimensional thermal-electrochemical-hydrodynamic numerical study of vanadium redox flow battery with different flow fields and non-homogeneously compressed electrode</i>. Journal of Energy Storage, 100, 113507 (2024). (Impact Factor: 10.7) 3. Saha, S., & Patnaikuni, V. S. <i>3-Dimensional numerical study on carbon based electrodes for vanadium redox flow battery</i>. Journal of Electroanalytical Chemistry, 968, 118477 (2024). (Impact Factor: 4.6) 4. Saha, S., Maniam, K. K., Paul, S., & Patnaikuni, V. S. <i>Hydrodynamic and Electrochemical Analysis of Compression and Flow Field Designs in Vanadium Redox Flow Batteries</i>. Energies, 16(17), 6311 (2023). (Impact Factor: 3.2) 5. Das, R. K., Saha, S., Chelli, V. R., & Golder, A. K. <i>Bio-inspired AgNPs, multilayers-reduced graphene oxide and graphite nanocomposite for electrochemical H₂O₂ sensing</i>. Bulletin of Materials Science, 41(3), 86 (2018). (Impact Factor: 2.1)
International Conferences	
1. Snigdha Saha, Venkata Suresh Patnaikuni, Praveen Kumar Bommineni, 3-D Numerical Analysis of Vanadium Redox Flow Battery with Serpentine Flow Field, <i>14th International Exergy, Energy and Environment Symposium (IEEEES-14)</i>, Istanbul, Turkey, Dec 24-27, 2023. 2. Snigdha Saha, Gajanan Dattarao Surywanshi, Venkata Suresh Patnaikuni, Numerical Analysis Of 3-D Vanadium Redox Flow Battery With Flow Field. <i>12th International Exergy, Energy And Environment Symposium (IEEEES-12)</i>, Doha, Qatar, March 22-26, 2020.	

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