

Department Name: Chemical Engineering

Faculty Name : Dr Bandana Chakrabarty

### Designation : Lecturer (Selection Grade)

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### Educational Details

- Ph.D – Indian Institute of Technology, Guwahati
- M. Tech – Indian Institute of Technology, Roorkee
- B.E. – Chemical Engineering ,Assam Engineering College, Guwahati

### Recent Publications

- B. Chakrabarty, A. K. Ghoshal and M. K. Purkait, “Structural and Transport Property Enhancement of Polysulfone Membrane due to PEG as Additive”, International Journal of Chemical Sciences 5 (4) (2007) 1873 – 1881
- B. Chakrabarty, A. K. Ghoshal and M. K. Purkait, “Effect of molecular weight of PEG on membrane morphology and transport properties”, Journal of Membrane Science, 309 (2008) 209–221
- B. Chakrabarty, A. K. Ghoshal and M. K. Purkait, “SEM analysis and gas permeability test to characterize polysulfone membrane prepared with polyethylene glycol as additive”, Journal of Colloid and Interface Science, 320 (2008) 245–253
- B. Chakrabarty, A. K. Ghoshal and M. K. Purkait, “Preparation, characterization and performance studies of polysulfone membranes using PVP as an additive”, Journal of Membrane Science, 315 (2008) 36–47
- B. Chakrabarty, A. K. Ghoshal and M. K. Purkait, “Ultrafiltration of stable oil-in-water emulsion by polysulfone membrane”, Journal of Membrane Science, 325 (2008) 427 – 437.

### Areas of Interest

- Membrane based Separation Technology (Microfiltration & Ultrafiltration)
- Heat Transfer
- Chemical Reaction Engineering
- Pollution Control

## Courses taught

- Heat Transfer Operations
- Process Calculation
- Chemical Reaction Engineering I & II
- Process Equipment Design
- Process Control & Dynamics
- Fundamentals of Chemical Engineering
- Material Science & Corrosion Engg
- Chemical Process Industries