Curriculum Vitae

Name: Dr. Suranjana Mandal

Designation: Head of the Department, Department of Plastic Polymer Engineering

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Google Scholar Profile: https://scholar.google.com/citations?user=mRHyCL0AAAAJ&hl=en

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Scopus Profile: Datta Chaudhuri, Suranjana - Author details - Scopus Preview

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Academic Credentials

- **PhD** in Polymer Science and Technology, University of Calcutta, Kolkata.
- **M. Tech** in Materials Science and Engineering, Indian Institute of Technology, Kharagpur
- **B.Tech** in Polymer Science and Technology, University of Calcutta, Kolkata

Key Research Areas: Polymer Synthesis and Characterisation

Experience

- 22 years of Teaching and Administrative Experience as Head of the Department, Vice Principal (Administration) and Dean (Students Development and Alumni)

Membership of Professional Bodies

- Member, All India Council for Technical Skill Development
- Life Member, International Society for Research and Development, UK
- Life member of Indian Society for Technical Education, New Delhi.

Seminar/Workshop/ Industrial Training/ STTP//FDP/CEP/Conference organized

- Convener, National Conference on Recent Advances in Polymers, 2010
- Convener, Technomillenium 2007

List of Publications/ Patents/ Book Chapters/Books

- Suranjana Datta Chaudhuri, Ayan Dey, Shweta Upganlawar, Debabrata Chakrabarty, Influence of clay concentration on the absorption and rheological attributes of modified cellulose /acrylic acid based hydrogel and the application of such hydrogel, Research paper submitted in Materials Chemistry and Physics, Elsevier.

- Chaudhuri, S. D., Mandal, A., Dey, A., & Chakrabarty, D. (2020). Tuning the swelling and rheological attributes of bentonite clay modified starch grafted polyacrylic acid based hydrogel. *Applied Clay Science*, *185*, 105405.
- Ms. Suranjana Datta Chaudhuri (Mandal), Dipak Patil, Viswanath Jadhav, Review on Utilisation of Superabsorbent Polymers for Sustainable Agriculture, IPI Journal, Volume 4, Issue 3, August – September 2017
- Ms. Suranjana Mandal, Raj C Chavda, Subodh N Birmole, Geopolymer, Popular Plastics and Packaging, ISSN: 0971-0078, (India's premier Journal for the Plastics, Polymer and Packaging industries), Vol LIX-No. 11, November 2014.
- Ms. Suranjana Datta Chaudhuri (Mandal), Ms. Payal Mutha, Ms. Prachi Borkar, Mr. Manish Chaugule, Superabsorbent Polymers: An Overview, Popular Plastics and Packaging, ISSN: 0971-0078, (India's premier journal for the plastics, polymer and packaging industries)

Books/ Book Chapter

- Mandal, S., Tayde, S., & Jadhav, V. (2024). Clay Polymer Composites for Biomedical Applications. In *Fiber and Ceramic Filler-Based Polymer Composites for Biomedical Engineering* (pp. 155-174). Singapore: Springer Nature Singapore.
- Dey, A., Mandal, S., Bhandari, S., Pal, C., Orasugh, J. T., & Chattopadhyay, D. (2020). Characterization methods. In Fiber-Reinforced Nanocomposites: Fundamentals and Applications (pp. 7-67). Elsevier.
- Mandal, S., & Dey, A. (2019). PET Chemistry. In Recycling of Polyethylene Terephthalate Bottles (pp. 1-22). William Andrew Publishing.

NPTEL/Coursera/Other Certification

- Introduction to Additive Manufacturing Processes an online non-credit course authorized by Arizona State University and offered through Coursera.
- Leadership Skills, an online non-credit course authorized by IIMA - IIM Ahmedabad and offered through Coursera.
- Foundations: Data, Data, Everywhere an online non-credit course authorized by Google and offered through Coursera.
- Ask Questions to Make Data- Driven Decisions an online non-credit course authorized by Google and offered through Coursera.