

Curriculum Vitae

Name: SURANJANA MANDAL

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Date of Birth: 26th January, 1975



Academic Credentials

Class/ Degree	Specialization	Institution	University	Year	%/CGPA	Class
Ph.D.	Polymer Science and Technology	University of Calcutta, Kolkata, W.B.	University of Calcutta, Kolkata, W.B.	Thesis submitted on 29 th May, 2021	NA	NA
M.E./ M. Tech.	Materials Science and Engineering	Indian Institute of Technology, Kharagpur, W.B.	Indian Institute of Technology, Kharagpur, W.B.	2000	8.73	<i>First</i>
B.E./B.Tech.	Polymer Science and Technology	University of Calcutta, Kolkata, W.B.	University of Calcutta, Kolkata, W.B.	1999	75%	<i>First</i>
B.SC	Chemistry (Hons)	Lady Brabourne College, Kolkata	University of Calcutta, Kolkata, W.B.	1996	59.75%	<i>Second</i>

M. Tech. Project: Modification of Biaxially of Oriented Polypropylene Film.

Ph. D. Research: Studies on Superabsorbent Polymer Composites

Key Research Areas: Polymer Synthesis and Characterisation

Experience

Sr. No.	Organization	Post	From	To	No. of Years
1.	G.S. Mandal's Maharashtra Institute of Technology, Aurangabad, Maharashtra	Dean (Students Development and Alumni) and Associate Professor, Plastic & Polymer Engineering	June 2021 – till date		1 month
2.		Associate Professor, Plastic & Polymer Engineering	August 2018 – June 2021		3.0
3.		Associate Professor, Plastic & Polymer Engineering and Vice Principal (Administration).	January 2015- July 2018		3.5
4.		Associate Professor and Head of the Department, Plastic & Polymer Engineering	January 2011 – December 2014		4.0
5.		Assistant Professor and Head of the Department, Plastic & Polymer Engineering	January 2007- January 2011		
6.		Sr. Lecturer and Head of the Department, Plastic & Polymer Engineering	August 2006- January 2007		
7.		Lecturer and Head of the Department, Plastic & Polymer Engineering	December 2003- August 2006		1.5
8.		Lecturer in Plastic Polymer Engineering	March, 2002- December 2003		
9.	C.P. Consultants Pvt. Ltd, New Delhi	Research Executive	May 2001- November 2001		0.5

List of Courses Taught/Teaching at UG level

Applied Science, Materials Science, Process Calculation, Introduction to Polymer Engineering, Plastics Technology, Elastomer Technology, Polymer Rheology & Morphology, Plastics Packaging Technology, Polymer Reaction Engineering, Physical Chemistry of Polymers,

Polymeric Materials 1, Polymeric Materials 2, Polymer Synthesis and Manufacturing, Elastomer Technology

List of Courses Taught/Teaching at PG level

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Additional Assignments/Duties

Institute Antiragging Coordinator from November, 2018 to till date

Institute Class Test and Term Work coordinator, Academic year 2020-21

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.

Research Projects/Projects Guided

Computer/Software Proficiency

Origin 8.5, ChemBioOffice

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

- Completed (i) **Getting Started with Google Classroom** (ii) **Using Google Jamboard for Student Learning** (iii) **Advanced Google Classroom for Education** (iv) **Create a Virtual Classroom using Google Slides** -- online non-credit courses authorized by Coursera Project Network and offered through Coursera.
- Completed AICTE Training And Learning (ATAL) Academy **Online FDP on "FRP COMPOSITES"** from 18th – 22nd January, 2021 at L D COLLEGE OF ENGINEERING, Gujarat.
- Completed AICTE Training And Learning (ATAL) Academy Sponsored One Week Faculty Development Program (FDP) on "**Waste Technology**" at C. V. Raman Global University, Bhubaneswar from 21st -25th December, 2020 in the Department of Mechanical Engineering.
- Completed online faculty development programme on "**Chemistry in Medicine and Materials Science**", 21st- 25th September 2020, organized by the Department of Chemistry, School of Sciences, National Institute of Technology, Andhra Pradesh.
- Completed the free course including any mandatory tests for **Introduction to polymers** A 20-hour free course gave an overview of polymers from The Open University, UK in July 2020.
- **Completed One Week Faculty Development Programme on 'Future Materials: Nanocomposites'** from 15th June, 2020 to 21st June, 2020 organized by Department of Mechanical Engineering, Bharati Vidyapeeth (Deemed to be University), College of Engineering, Pune.
- Participated in the Online AICTE Recognized Faculty Development Programme on Waste Management from 08/06/2020 to 12/06/2020 (One Week) Organized by Mechanical Engineering Department, NITTTR, Chandigarh

- Participated in the Online AICTE Recognized Faculty Development Programme on **NBA Accreditation of Engineering Programs** from 11-05-20 to 15-05-20 (One Week) Organized by Mechanical Engineering Department, NITTTR, Chandigarh
- Completed ET701x: Elements of Learner Centric MOOC's, a course of study offered by IITBombayX, an online learning initiative of Indian Institute of Technology Bombay, conducted from 03 May 2018 to 23 May 2018.
- Completed ET621Tx: Effective teaching-learning of CS in Schools a course of study offered by IITBombayX, an online learning initiative of Indian Institute of Technology Bombay, conducted from 09 November 2017 to 07 December 2017.
- Completed AICTE approved Two Week Faculty Development Programme (FDP101x) on FOUNDATION PROGRAM in ICT FOR EDUCATION, conducted by Indian Institute of Technology, Bombay from 3rd August, 2017 to 7th September, 2017.
- Awarded First prize in oral presentation in 2 days National Conference on Advanced Trends in Agricultural and Food engineering (ATAFE-2017), organized by MIT, Aurangabad (7-8 April, 2017). Presented Review paper on Utilisation of Superabsorbent Polymer for Sustainable Agriculture.
- Participated in Poster Presentation at PLASTIVISION 2017 exhibition (19-23 January,2017)
- Attended Three Days (15-17 February,2017) STUP on “Recent Development in Processing, Testing and Characterization of Plastics” (Sponsored by SIDBI, Aurangabad), organized by CIPET, Aurangabad
- Presented Research paper on Studies on Poly (acrylic acid)/Starch/Bentonite Superabsorbent Composite: Synthesis and Characterization in the National Conference at Gharda Institute of Technology, Lavel held on January 27-28, 2012.
- Presented Research paper on Studies on Poly (acrylamide)/Starch/Bentonite Superabsorbent Composite: Synthesis and Characterization in the Rongotsav held at ICT, Mumbai on February 18-19, 2012.
- Presented Poster on Studies on Poly (acrylic acid)/Starch/Bentonite Superabsorbent Composite: Synthesis and Characterization in the Rongotsav held at ICT, Mumbai on February 18-19, 2012.
- 4-days SIDBI Sponsored STUP held at CIPET, Aurangabad. Topic: Improvements in Manufacturing Processes & Quality Control of Engineering Plastics Products.

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

Convener, National Conference on Recent Advances in Polymers, 2010

Convener, Technomillennium 2007

Invited talks delivered

Delivered Lecture on “Testing & Quality Control of PVC & HDPE Pipes” at Workshop held at CIPET , Aurangabad in October,2008

Projects, Research Grants and Consultancy

Intellectual Property Rights

List of Research Publications

Papers in National/ International Journal

- 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

- 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.

Date: 23.07.2021

Place: Aurangabad