Curriculum Vitae

Name: Ms. Aastha Dutta

Designation: Assistant Professor

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Web identifiers:

Google Scholar Profile: https://scholar.google.com/citations?user=9K5n7WYAAAAJ&hl=en

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Scopus Profile: https://www.scopus.com/authid/detail.uri?authorId=57208508493

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Academic Credentials

- **M. Tech** in Chemical Engineering, Jawaharlal Nehru Engineering College, Dr.Babasaheb Ambedkar Marathwada University,Chh.Sambhaji Nagar.
- **B.Tech** in Plastics Technology, ICT,.Mumbai.

Key Research Areas: Green polymers

Experience

- 20 years of Teaching Experience
- 5 years**,** R&D Lab Incharge, CTR Industries Pvt.Ltd, Chh.Sambhaji Nagar..

Membership of Professional Bodies

- Life member of Indian Society for Technical Education, New Delhi.

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

- Organised National Conference on 'Recent Advances in Polymers' in August 2010.
- Convened National Symposium on Biopolymers in March 2011.
- Convened Technomillennium 'Smart Materials' in September 2012.

List of Publications/ Patents/ Book Chapters/Books

Papers in National/ International Journal:

- Kolekar, S., Deshmukh, S., Hiwale, V., & Dutta, A. (2020). Analyzation of calcium carbonate (CaCO3) in eggshells and their applications. *International Research Journal of Innovations in Engineering and Technology*, *4*(8), 37.
- Remya, V. R., Abitha, V. K., Rajput, P. S., Rane, A. V., & Dutta, A. (2017). Silver nanoparticles green synthesis: a mini review. *Chem. Int*, *3*(2), 165-171.
- Chakraborty, A. P., & Gaonkar, M. (2016). Eggshell as calcium supplement tablet. *International Journal of Animal Biotechnology and Applications*, *2*(1) (IJSEM).

- Gaonkar, M., & Chakraborty, A. P. (2016). Application of eggshell as fertilizer and calcium supplement tablet. *International journal of innovative research in science, engineering and technology*, *5*(3), 3520-3525.
- Gaonkar, M., & Chakraborty, A. P. (2016). Application of eggshell as fertilizer and calcium supplement tablet. *International journal of innovative research in science, engineering and technology*, *5*(3), 3520-3525.
- Chakraborty, A. P., & Gaonkar, M. (2016). Eggshell as calcium supplement tablet. *International Journal of Animal Biotechnology and Applications*, *2*(1).
- .Preparation of Phenolic Resin from Oil of Semecarpus Anacardium, Journal of Catalyst and Catalysis, Volume 2, Issue 3,2015 .
- Alcid Bamboo, Journal of Polymer and Composites, Volume 2,No.3,2014 .
- Biopolymers: Efficient Drug Delivery, Packaging India,October-November,2010 .

Books/ Book Chapters:

- Dutta, A. (2017). Fourier transform infrared spectroscopy. *Spectroscopic methods for nanomaterials characterization*, 73-93.
- .Dutta, A. S. (2018). Polyurethane Foam Chemistry. Recycling of Polyurethane Foams. *William Andrews*, *9*.
- Bhagabati, P., Rahaman, M., Bhandari, S., Roy, I., Dey, A., Gupta, P., ... & Chattopadhyay, D. (2019). Synthesis/preparation of carbon materials. *Carbon-Containing Polymer Composites*, 1-64.
- Mishra, R. K., Dutta, A., Mishra, P., & Thomas, S. (2018). Recent progress in electromagnetic absorbing materials. *Advanced Materials for Electromagnetic Shielding: Fundamentals, Properties, and Applications*, 147-166.
- Thomas, S., Rane, A. V., Abitha, V. K., Kanny, K., & Dutta, A. (Eds.). (2018). *Hydraulic rubber dam: An effective water management technology*. William Andrew.
- Dutta, A. (2021). An overview of electromagnetic interference shielding. *Nanostructured Materials for Electromagnetic Interference Shielding*, 1-8.
- Dutta, A. S. (2023). Applications of Polymeric Green Composites in the Biomedical Field: A Review. *Advances in Diverse Applications of Polymer Composites*, 1-28.
- Gupta, P., Dutta, A., & Rahaman, M. (2023). Miscellaneous Materials for Chemical Sensing. In *Materials for Chemical Sensors* (pp. 207-224). CRC Press.
- Dutta, A. S. (2024). General characteristics of packaging materials and their modifications. In *Nanostructured Materials for Food Packaging Applications* (pp. 49-68). Elsevier.
- Dutta, A. S. (2024). An outlook of fully green nanoscale food packaging. In *Nanostructured Materials for Food Packaging Applications* (pp. 83-103). Elsevier.
- Dutta, A. S. (2024). Carbon Nanotubes in Biological, Chemical And Physical Approach To Materials And Its Applications, National Press Associates, New Delhi..

"**NPTEL/Coursera/Other Certification**

- NBA Accreditation and Teaching –Learning in Engineering(NATE) from January – April 2020,12 weeks.

- Learning to Teach Online,6 weeks course of Coursera, May 2020.
- Work Smarter, Not Harder: Time Management for Personal & Professional Productivity,4 weeks course organised by Coursera, May 2021.
- The science of well being, 10 weeks Coursera, August, 2021.
- Learning How to Learn,4 weeks course organised by Coursera, December 2021.

Awards, Achievements and Recognition

- Reviewer for journal “African Journal of Biochemistry Research”.
- Reviewer for journal “Journal of Plant Breeding and Crop Science”.
- Reviewer for journal “African Journal of Agricultural Research”.
- Reviewer for journal “Scientific Research and Essays”.
- Reviewer for journal “Journal of Medicinal Plants Research”.
- Reviewer for journal “African Journal of Biotechnology”.
- Reviewer board member of “International Research Journal of Innovations in Engineering and Technology”.