

Biodata

Name: Dikshita Sharma

Designation: Assistant Professor, Chemistry (Contractual) in the Department of Education (ITEP), School of Humanities and Social Sciences, Tezpur University

Area of Interest: Chemistry Pedagogy

Email: dikshi8@tezu.ernet.in ; dikshitas123@gmail.com

Educational Qualifications

- Ph.D. (Chemistry), Tezpur University (2025)
PhD topic: Development of Biopolymeric Nanoparticles for the Controlled Delivery of Anti-Diabetic Drugs (under the supervision of Prof. Tarun K. Maji)
- B.Ed., Gauhati University (2018)
- Integrated M.Sc. (Chemistry), Tezpur University (2016)
- Class XII (CBSE), Don Bosco School, Panbazar, Guwahati (2011)
- Class X (CBSE), Mangaldai Maharishi Vidya Mandir (2009)

Work Experience

- PGT (Chemistry), Hekra Higher Secondary School (June 2023 – August 2025)
- PGT (Chemistry), Kuralguri Higher Secondary School (May 2022 – May 2023)
- Teaching Assistant, Department of Chemistry, Tezpur University, 2019

List of Publications (Peer-Reviewed)

- Sharma D., & Maji T.K. Magnesium Oxide–Doped Chitosan–Carrageenan Complex for Controlled Delivery of Curcumin in Type 2 Diabetes Management. *Chemical Papers* (Accepted, 2025).
- Sharma, D., Sarkar, A., Sinha, A., Dasgupta, S., & Maji, T. K. Chitosan-alginate complex for the controlled delivery of α -lipoic acid in diabetes therapy: Modulation by montmorillonite and glutaraldehyde. *Indian Journal of Chemical Technology (IJCT)*, 32(1), 125-136, 2025.
- Sharma, D., & Maji, T. K. Development of a gelatin-halloysite nanotube-carrageenan polyelectrolyte complex for pH-responsive oral delivery of lipoic acid. *Indian Journal of Chemistry (IJC)*, 64(3), 306-315, 2025

Conference Presentations

- Poster Presentation: Sharma, D. (2021). Preparation of Chitosan–Carrageenan Polyelectrolyte Complex for Controlled Release of Curcumin. In *International*

Research Projects

- Validation study and application of AChE biosensor for analysis of pesticide residue content in fruits and vegetables — M.Sc. final project under the supervision of Prof. Panchanan Puzari, Department of Chemistry, Tezpur University (2016)
- Physico-chemical parameters of water of Bega River, Mangaldai — project work under Dr. Kamala Kanta Borah, Mangaldai College (2013)
- Nurturing of Neem for Mosquito Control — State Level National Children's Science Congress (2006)

Internships done

- Summer Internship (2 months) under Prof. Biplab Mondal, Department of Chemistry, IIT Guwahati (2014)
- Summer Internship (2 months) under Dr. Kamala K. Borah, Department of Chemistry, Mangaldai College (2013)

Workshops Attended

- Particle Characterisation by Dynamic Light Scattering (DLS) and Laser Diffraction Technique, SAIC, Tezpur University & Anton Paar (2020)
- Workshop on Computational Chemistry, InSCIgnis, Tezpur University (2015)
- Chemistry Workshop on Arsenic & Fluoride Removal from Water, InSCIgnis, Tezpur University (2014)
- Science Academies' Lecture Workshop on Modern Trends in Chemistry, Tezpur University (2013)
- Workshop on Spectroscopic Tools and their Applications, Tezpur University (2013)
- Workshop on Computational Chemistry, National Science Day, Tezpur University (2013)

Declaration

I hereby declare that the information provided above is true to the best of my knowledge and belief.

Date: 21/08/2025

Place: Tezpur

Dikshita Sharma