

UNIVERSITY OF CALCUTTA

FACULTY ACADEMIC PROFILE/ CV

1. **Full name of the faculty member:** Dr. Anirban Chakraborty
2. **Designation:** Assistant Professor (Contractual)
3. **Specialization :** Oil Technology
4. **Passport size photograph :**



5. **Contact information :**
Department of Chemical Technology,
University of Calcutta,
92 A P C Road, Kolkata – 700009
e.mail: anirban5178@gmail.com

6. **Academic qualifications:**

College/ university from which the degree was obtained	Abbreviation of the degree
University of Calcutta	B.Sc. (Chemistry Hons.)
University of Calcutta	B. Tech (Chemical Technology)
University of Calcutta	M. Tech (Oil Technology)
University of Calcutta	Ph. D. (Tech.)

7. **Research interests:**

- Processing & modifications of Fats & Oils.
- Resins from bio-renewable source for surface coating.
- Industrial waste/ by-product utilization.
- Bio- based products manufacture and characterization

8. **Research guidance:**

Nil

9. Selected list of publications:

a) Journals:

- i. A.Chakraborty*,M.Ghosh. Utilization of Acacia auriculiformis seed (Akashmoni) oil – a new source for the synthesis of alkyd resin. *Indian Journal of Chemical Technology*, 2021 (28) 717. <https://doi.org/10.56042/ijct.v28i6.49598>
- ii. A.Chakraborty, M.Ghosh, D.Mitra*, Synthesis and Characterization of Polyesteramide Resin from Acacia auriculiformis Seed Oil for Surface Coating Application. *Journal of polymers and the environment*, 2023. <https://doi.org/10.1007/s10924-023-03105-4>
- iii. A.Chakraborty, S. Dhar, M.Ghosh, D.Mitra*, Development of an efficient renewable corrosion-inhibiting agent from Acacia auriculiformis seed oil. *Green Materials*, 2024. <https://doi.org/10.1680/jgrma.24.00009>

b) Books/ book chapters :

- Obesity; A Serious Social & Psychological Dimension in Life, in the book Contemporary Social Issues in India, 2022.
- Exploring the Intricacies of Biopolymers Derived From Vegetable Oil, in the book Recent Trends in Multidisciplinary Research (Vol-16), 2024.

c) Conference/ seminar volumes:

- i) CHEMCON-2021 at CSIR-IMMT, Bhubaneswar Title: Vegetable oil-based eco-friendly polymer suitable for surface coating: A review
- ii) ACMS-2022 at Heritage Institute of Technology, Kolkata. Title : Minor seed oil-based alkyd resin: A potential biorenewable source in surface coating;
- iii) OTAI 2022 National Physical Laboratory, New Delhi. Title : Utilization of fatty amide as a green corrosion inhibitor in surface coating formulations.
- iv) CHEMCON-2023 at Heritage Institute of Technology, Kolkata, Title: Novel polyester amide resin development from a sustainable resource.
- v) ETBFT-2025 at GNIT, Kolkata. Title: Exploring the Potential of Spent Coffee Grounds Oil: Characterization and Opportunities (ISBN Number: 978-93-341-6115-1, Page 14)

d) Patent:

- i) A METHOD OF PREPARATION OF SOIL IMPROVER FOR SALINE SOILS IN RICE PLANTINGS (Indian Patent Number: 571671; 2025)

10. Awards:

- i. GATE 2021 qualified in Engineering Science (XE) : Polymer Science and Engineering (F) & Food Technology (G).
- ii. Won best poster presentation award in ACMS 2022 Conference.

11. Other notable activities:

- 8 years of industrial experience in Paint Industries (PAN India). Position held: Senior executive.

Anirban Chakraborty

Signature of the faculty member

Date: 24/12/2024