



# Techno College of Engineering Agartala

An Engineering College affiliated to Tripura University (A Central University),

Approved by AICTE, MHRD, Govt. of India

Website: [www.tiaedu.org](http://www.tiaedu.org)

**Name of the faculty:** Dr. ARPITA BANIK

**Designation:** Associate Professor

**Education:** B.E.(2013), M.Tech.(2015), PhD(2025)

**Contact:** 9774141827

**Address:** GPU Lab (Lab no. 5), Department of Computer Science and Engineering, Techno College of Engineering Agartala, Maheshkhola, Agartala, Tripura(West), pin: 799004

**Mobile:** 9774141827 / 8787345217

**Email:** arpita.himani.banik4@gmail.com

**Research Interest:**

- **Image Security**
- **Image Processing**
- **Cryptography**

**Membership of professional bodies:** NA

**Professional Experience:**

- Worked as a visiting faculty of ICFAI University, Kamalghat, Tripura (w) from 17th August 2015 to 30th May 2017.
- Worked as a teaching assistant of TIT, Narsingarh, Agartala, Tripura (w) from 10th March 2016 to 26th May 2016.
- Worked as a Visitig Faculty of Bhabans Tripura B.Ed College, AnandaNagar, Agartala, Tripura(w) from 6th February 2017 to 30th May 2017.
- Worked as a PGT computer teacher cum Fedena co-ordinator, Sri Sri Ravisankar Vidya Mandir, Potunagar, Agartala, Tripura (w) from 19th February 2018 to 25th February 2019.

**Patents:** 1

**Publications:** Journal (3), Conference (2)

**Publishes Journal/ Conference papers/ Book/ Book Chapters :**

**Patent:**

- Arijita Bhowmik, Arpita Banik, Dipjyoti Deb, Dr. Parijata Majumder, Susmita Majumder .Apparatus For Task Matching Schema, Design number: 441957-001 on 25/12/2024, Government of India.

**Journals:**





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- Arpita Banik, Laiphrakpam Dolendro Singh, and Dalton Meitei Thounaojam. Image encryption based on module learning with error using dynamic s-boxes. *Nonlinear Dynamics*. Elsevier, (Indexed: SCI, Impact factor: 5.2, Q1 in SJR index, Published on 2024/11/21), 2024. (SCI)
- Arpita Banik, Laiphrakpam Dolendro Singh, Amit Agrawal, and Ripon Patgiri. Secret image encryption based on chaotic system and elliptic curve cryptography. *Digital Signal Processing*, volume 129, page 103639. Elsevier, (Indexed: SCI, Impact factor: 2.9, Q2 in SJR index, Published), 2022 (SCI)
- Arpita Banik, Zeba Shamsi, and Laiphrakpam Dolendro Singh. An encryption scheme for securing multiple medical images. *Journal of Information Security and Applications*, volume 49, page 102398. Elsevier, (Indexed: SCIE, Impact factor: 5.6, Q2 in SJR index, Published), 2019. (SCI)

## Conferences:

- K Sekar, Suganya Devi K, P Srinivasan, T Dheepa, Arpita Banik, and L Dolendro Singh. Joint correlated compressive sensing based on predictive data recovery in wsns. In *2020 International conference on emerging trends in information technology and engineering (ic-ETITE)*, pages 1–5. IEEE, (Indexed: Scopus, Published), 2020.
- Arpita Banik and Debarshi Kumar Sanyal. Wolive: Wormhole detection through link verification in wireless networks with error-prone channel. In *2015 Annual IEEE India Conference (INDICON)*, pages 1–6. IEEE, (Indexed: Scopus, Published), 2015.

## Achievements (if any):

Yoga Gold medal winner, 2004 (State level champion)

## Hobbies:

- Creating educational content or tutorials
- Developing small software or coding projects
- Reading technical blogs and research papers
- Practicing Yoga
- Writing poems and Listening Music