



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

Name of the faculty: Udayan Chakraborty



Designation: Assistant Professor

Education: M.Tech

Contact: 9774142921

Address: Techno College of Engineering Agartala, Maheshkhola, PO- Anandanagar, 799004.

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Email: NA

Research Interest:

- Low Power VLSI Design
- Memory Design
- RTL Synthesis

Membership of professional bodies: NA

Professional Experience: 3 years

Patents: NA

Publications: Journal- 03, Conference- 01

Publishes Journal/ Conference papers/ Book/ Book Chapters :

- Chakraborty, U., Majumder, T., Debbarma, R., Das, N. and Bhattacharjee, A., 2024. A novel MTCMOS based 8T2M NVSRAM design for low power applications with high temperature endurance. *Semiconductor Science and Technology*, 39(8), p.085010.
- Majumder, T., Mukherjee, C., Dasgupta, S., Chakraborty, U., Das, N. and Bhattacharjee, A., 2024. The effect of temperature on the electrical characteristics of zigzag and armchair black phosphorus based 2D MOSFET. *Semiconductor Science and Technology*, 39(10), p.105008.
- Majumder, T., Debbarma, S., Chakraborty, U., Dasgupta, S., Das, N. and Bhattacharjee, A., 2025. On the Thermal Dependency of Electrical Properties Between MoS₂ and WS₂-Based 2-D MOSFETs. *IETE Journal of Research*, 71(5), pp.1764-1776.
- Deb, D., Bhaumik, G. and Chakraborty, U., 2023, January. Effect of power supply noise on logical reliability of MOS based circuits. In *2023 Third International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT)* (pp. 1-8). IEEE.

Achievements (if any):

- Gold Medallist in M.Tech 2024 from Tripura University (A Central University).
- Gold Medallist in B.Tech 2022 from Tripura University (A Central University).
- Academic excellence award in M.Tech and B.Tech.
- Secured the third position at state level science exhibition conducted by Tripura State Council for Science and Technology in 2023.
- Winner in inter School and college event of Robotronics competition conducted by Techno college of Engineering Agartala in 2019.

Hobbies: NA