



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: Dr. Arnab Paul

Designation: Associate Professor

Education: PhD

Contact:-

Address: Maheshkhola, Anandanagar, Tripura West, Tripura – 799004, India

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Research Interest:

- Fuzzy Set Theory
- Multi-Criteria Decision Making (MCDM)

Membership of professional bodies: Life Member, Tripura Mathematical Society (TMS)

Professional Experience:

- Deliver Diploma and undergraduate courses in Mathematics.
- Conduct continuous assessments, prepare question papers, and evaluate answer scripts as per institutional norms.
- Mentor students academically and help them improve performance through remedial classes.
- Actively participate in departmental meetings, academic committees, and institutional development activities.
- Engage in research activities and publish papers in journals; attend national and international conferences.
- Contribute to administrative responsibilities such as examination coordination, admission process.

Publications:

Publishes Journal: -

- Paul and B. Bhattacharya, (2015), "New types of functions and separation axiom by γ -open sets in fuzzy bitopological spaces", *Malaysian Journal of Mathematical Sciences*, Vol. 9:3, pp. 397–407. (SCOPUS).
- A. Paul, B. Bhattacharya and J. Chakraborty, (2017), "On Lambda Gamma-Sets in Fuzzy Bitopological Spaces", *Bol. Soc. Paran. Mat.*, Vol. 35:3, pp. 285–299. (SCOPUS).
- J. Chakraborty, B. Bhattacharya, and A. Paul, (2017), "Fuzzy $\Lambda\gamma$ -sets and generalization of closed sets in generalized fuzzy topological spaces", *Songklanakarin Journal of Science & Technology*, Vol. 39:3. (SCOPUS).
- J. Chakraborty, B. Bhattacharya, and A. Paul, (2017), "Some results on fuzzy hyperconnected spaces", *Songklanakarin Journal of Science and Technology*, Vol. 39:5, pp. 619–624. (SCOPUS).





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- . Paul, B. Bhattacharya, and J. Chakraborty, (2018), "On γ -locally closed sets in fuzzy bitopological space", *Songklanakarin Journal of Science & Technology*, Vol. 40:5. (SCOPUS).
- B. Das, B. Bhattacharya, J. Chakraborty, G. Sree Anusha, and A. Paul, (2019), "A new type of generalized closed set via γ -open set in a fuzzy bitopological space", *Proyecciones (Antofagasta)*, Vol. 38:3, pp. 511–536.
- B. Bhattacharya, A. Paul, and J. Chakraborty, (2019), "On fuzzy $\Lambda\gamma$ -Sets and their Applications", *Proyecciones (Antofagasta)*, Vol. 38:2, pp. 237–253.
- A. Paul, B. Bhattacharya, and J. Chakraborty, (2017), " γ -Hyperconnectedness and fuzzy mappings in fuzzy bitopological spaces", *Journal of Intelligent & Fuzzy Systems*, Vol. 32:3, pp. 1815–1820.(SCI).
- P. Majumder, V. E. Balas, A. Paul, and D. Baidya, (2021), "Application of improved fuzzy best worst analytic hierarchy process on renewable energy", *PeerJ Computer Science*, Vol. 7, Article e453. (SCOPUS).
- P. Majumder, A. Paul, P. Saha, M. Majumder, D. Baidya, and D. Saha, (2023), "Trapezoidal fuzzy BWM-TOPSIS approach and application on water resources", *Environment, Development and Sustainability*, Vol. 25:3, pp. 2648–2669.(SCI).

Conference papers:-

- A. Paul, (2013), "On γ^* -Semi Open Sets in Bitopological Spaces", 2nd International Conference on Rough Sets, Fuzzy Sets and Soft Computing, Tripura University.
- A. Paul, (2014), "Completely γ -Irresolute Function in Fuzzy Bitopological Spaces", 3rd International Conference on Frontiers of Mathematics and Applications, Burdwan University.
- A. Paul, (2014), "On Bitopological γ -Open Set", 18th International Mathematics Conference Independent University, Bangladesh.
- A. Paul, (2014), "On $(1, 2)^*$ Contra- γ -Continuous Function", International Conference on Mathematics, Engineering and Industrial Applications, Malaysia.
- A. Paul, (2016), "On γ -Locally Closed Sets in Fuzzy Bitopological Space", National Conference on Engineering Problems and Application of Mathematics.
- A. Bhowmik, S. Debnath, A. Paul, S. Majumder, D. Deb, and S. K. Cowlessur, (2023), "Online Blood Bank System Using Blockchain in Crowdsourcing Platform", *International Conference on Advanced Communications and Machine Intelligence*, Springer Nature Singapore, pp. 513–521.

Book/ Book Chapters :-

- A. Paul and B. Bhattacharya, (2018), "*Gamma Hyperconnectedness and Fuzzy Mappings*", Lambert Academic Publishing, ISBN: 978-620-2-05937-4.
- A. Saha, D. Dutta, S. Kar, P. Majumder and A. Paul (2020), "*GATE Engineering Mathematics*", Khanna Publishers, ISBN: 978-93-873949-7-1.

Hobbies:-

- Mentoring and guiding students
- Academic reading and research writing
- Organizing educational events, quizzes, or competitions