



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. Rupali Roy

Designation: Associate Professor

Education: (UG,PG, PhD): PhD

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Research Interest:

- **Transportation Engineering**
- **Traffic Engineering**

Membership of professional bodies:

Professional Experience: Research Scholar at IEST Shibpur, Assistant Professor at MCET, Assistant Professor at CIEM, Assistant Professor at TMSL, Associate Proessor at TCEA



Published Journal/ Conference papers/ Book/ Book Chapters :

1. Roy, R., Saha, P., “Headway Distribution Models of Two-lane Roads under Mixed Traffic Conditions: A Case Study from India”, *European Transport Research Review*, Springer, Vol. 10, No. 3, 2018, pp. 1-12. (SCI, SCOPUS)
2. Saha, P., Roy, R., Sarkar, A.K., Pal, M., “Preferred time headway of drivers on two-lane highways with heterogeneous traffic”, *Transportation Letters*, Taylor and Francis, 2017, pp. 1-8 (SCI, SCOPUS)
3. Roy, N., Roy, R., Talukdar, H., Saha, P., “Effect of Mixed Traffic on Capacity of Two-Lane Roads: Case Study on Indian Highways”, *Procedia Engineering*, Elsevier, Vol. 187, 2017, pp. 53-58. (SCOPUS)
4. Roy, R., Saha, P., Sarkar, A. K., “Speed Distributional Trends on Two-lane Roads with Mixed Traffic under Heavy Flow”, *Procedia Engineering*, Elsevier, Vol. 187, 2017, pp. 465-470. (SCOPUS)
5. Roy, R., Saha, P., “Analysis of Vehicle-Type-Specific Headways on Two-Lane Roads with Mixed Traffic”, *Transport*, Taylor and Francis, (SCI, SCOPUS)
6. Saha, P., Roy, R., “A Descriptive Study of Vehicle Class wise Headways Using Mixed Traffic Data”, *Journal of The Institution of Engineers (India): Series A*, 103, pages1287–1298 (2022), Springer
7. Roy R., & Saha P., *Microscopic Analysis of Time Headway of Vehicles on Two-Lane Highways with Mixed Traffic*, 4(3), 287:1-15, SN Computer Science, Springer, 2023
8. Roy, R., Saha, P., “An Empirical Analysis of Time Headways on Two-lane Roads with Mixed Traffic”, *Reliability and Statistics in Transportation and Communication*, Springer, 2018, pp. 192-203.
9. Roy, R., Roy, N., Saha, P., Sarkar, A. K., “Analysis of Time Headways under Heavy Traffic Flow Conditions on Two-lane Roads: Case Study from North-East India”, *12th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries*, 2016, (TPMDC) in IIT Bombay.
10. Roy, R., Saha, P., Sarkar, A. K., “Time Headway Modeling of Mixed Traffic on Two-Lane Highways”, *3rd Conference of the Transportation Research Group of India (3rd CTRG)*, Kolkata, 2015. (compendium of papers: ID-



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11. Roy, N., Roy, R., Talukdar, H., Saha, P., "Effect of Mixed Traffic on Capacity of Two-Lane Roads: Case Study on Indian Highways", *10th International Scientific Conference "Transbaltica 2017: Transportation Science and Technology"*, Vilnius Gediminas Technical University, 2017.
 12. Roy, R., Saha, P., Sarkar, A. K., "Speed Distributional Trends on Two-lane Roads with Mixed Traffic under Heavy Flow", *10th International Scientific Conference " Transbaltica 2017: Transportation Science and Technology"*, Vilnius Gediminas Technical University, 2017.
 13. Roy, R., Saha, P., "An Empirical Analysis of Time Headways on Two-lane Roads with Mixed Traffic", *17th International Conference Reliability and Statistics in transportation and communication*, Riga, Latvia, 2017.
 14. Roy, N., Roy, R., Saha, P., Sarkar, A. K., "Modelling of vehicular speeds on Two-Lane Roads under Heavy Traffic Flow Condition", Proc. National Conf. on Engineering problems and Application of Mathematics (EPAM-2016), NIT Agartala, 2016.
 15. Roy, R., Saha, P., " Exponential Distribution of Headways: A Misnomer on Two-Lane Roads with Heterogeneous Traffic", Proceedings of Research Scholars' Colloquium (RSC)-2016, IEST Shibpur, 2016, pp. 43-44.
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Hobbies: Travelling