

Manideepa Saha

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🌐 <https://scholar.google.com/citations?user=VWoEfrYAAAAJ&hl=en&oi=ao>
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Education

- July 2024 – October 2024 📖 **Visiting Researcher, National Institute of Science Education and Research, Bhubaneswar, India**
- 2023 – July 2024 📖 **Post Doctoral Fellow (joined 6th December,2023), National Institute of Science Education and Research, Bhubaneswar, India**
- 2018 – 2023 📖 **Ph.D (1st August,2023), Presidency University, Kolkata, India**
Advisor: Dr. Angsuman Das
Research Topic: Algebraic Graph Theory.
Thesis title: On Graphs Defined on Algebraic Objects
Thesis Defense: 31.07.2023
- 2012 – 2014 📖 **M.Sc. Pure Mathematics, University of Calcutta, Kolkata, India .**
Specialization: Abstract harmonic analysis, Non commutative rings and modules
- 2009 – 2012 📖 **B.Sc. Mathematics Hons., West Bengal State University, West Bengal, India .**
Subjects: Mathematics, Physics, Electronics.

Certification

- 2015 📖 **CSIR NET in MATHEMATICAL SCIENCE.** Awarded by UGC-CSIR, INDIA

Research Interest

My research interest mainly focused on Algebraic Graph Theory, a branch of Discrete Mathematics. Motivating by Cayley Graph, Power Graph, Enhanced Power Graph etc, I try to define graphs on different algebraic structures like group, ring and my interest lies on to get back information about underlying algebraic structure from the properties of graph. I am also interested in theory of representation theory of groups and combinatorics.

Contacts for Reference

1. **Dr. Angsuman Das**
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Research Publications

Journal Articles

- 1 Angsuman Das, **Manideepa Saha**. (2023). On co-maximal subgroup graph of a group-ii. *Ricerche di Matematica*. [doi:https://doi.org/10.1007/s11587-023-00836-3](https://doi.org/10.1007/s11587-023-00836-3)
- 2 **Manideepa Saha** , Angsuman Das, Ece Yetkin Çelikel and Cihat Abdioglu. (2023). Prime ideal sum graph of a commutative ring. *Journal of Algebra and Its Applications*, Vol 22, No. 6.
[doi:https://doi.org/10.1142/S0219498823501219](https://doi.org/10.1142/S0219498823501219)

- 3 Angsuman Das, **Manideepa Saha** and Saba Al-Kaseasbeh. (2022). On co-maximal subgroup graph of a group. *Ricerche di Matematica*. doi:https://doi.org/10.1007/s11587-022-00718-0
- 4 Sucharita Biswas, Angsuman Das and **Manideepa Saha**. (2022). Generalized andrasfai graphs. *Discussiones Mathematicae - General Algebra and Applications, Vol 42, pp: 449-462*. doi:https://doi.org/10.7151/dmgaa.1401
- 5 **Manideepa Saha** , Sucharita Biswas and Angsuman Das. (2021a). On comaximal subgroup graph of Z_n . *International Journal of Group Theory, Vol 11, No. 4*, pp. 221–228. doi:10.22108/IJGT.2021.129788.1732
- 6 **Manideepa Saha** , Sucharita Biswas and Angsuman Das. (2021b). On perfectness of annihilating-ideal graph of Z_n . *Communications in Combinatorics and Optimization, Vol 8, No. 1*, pp. 173–181. doi:10.22049/CCO.2021.27382.1252

Workshops and Conferences

- 2020  **International Conference on Algebraic Graph Theory and its Applications (ICAGTA - 2020)** , Presidency University, 2020. (Presented a paper) (Presented a paper)
- 2022  **"Indian Women and Mathematics (IWM) Annual Conference 2022-2023"**, Indian Institute of Science Education and Research, Pune, December, 2022. (Presented a paper)
- 2023  **"Group Theory and Related Topics Conference, 2023"**, National Institute of Science Education and Research, Bhubaneswar, February, 2023. (Presented a paper)
-  **"Graph Spectra, Combinatorial Graph Theory, Group Theory and Nano-Molecular-Electronic-Devices, GCGN, 2023"**, University of Malta, Malta, March, 2023. (Presented a paper)
-  **Advance Instructional School on Algorithmic Graph Theory, 2023**, IIT, Indore, June 2023.
- 2024  **Second Meru Combinatorics Conference 2024**, Bhimtal, June 2024.

Teaching Experience

-  Teaching Assistant in course "Linear Algebra II and Field Theory" , Presidency University.
-  Teaching Assistant in course "Ring Theory", Presidency University.
-  Tutor in Combinatorics in IWM Winter School at Punjabi University, Patiala.

Skills

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| Languages |  Strong reading, writing and speaking for Bengali, English, Hindi. |
| Coding |  Sagemath |
| Miscellaneous |  Playing badminton, Teaching. |