

## Curriculum Vitae



### **Dr. Arun Joram**

HoD, Department of Science & Humanities

Rajiv Gandhi Govt. Polytechnic College Itanagar, Arunachal Pradesh, India

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### **Academic Qualifications**

- Ph.D. in Mathematics — National Institute of Technology (NIT), Arunachal Pradesh
- M.Sc. in Mathematics and Computing— Rajiv Gandhi Central University, A.P
- B.Sc. — Dera Natung Govt. College, A.P

### **Professional Experience**

- Lecturer Mathematics, Since 2015 till date
- HoD, Science & Humanities, RGGPC, Since 2025 till date
- Campus In-charge, since 2019 till date

### **Research Interests**

- Graph Theory, Social Network Analysis, IoT Applications, Kinship Networks, Machine Learning.

### **Publications**

- Comparative study of kinship network community detection approaches — A. Joram, K.R. Singh. Discrete Mathematics, Algorithms and Applications 17(03), 2450042, 2025.
- Tracing roots and linkages: Harnessing graph theory and social network analysis in genealogical research, based on the kin naming system — A. Joram, K. Ratan Singh, L. Narayan Mishra, L. Rathour, A. Vanav Kumar. Discrete Mathematics, Algorithms and Applications 17(04), 2450067, 2025.

- Unveiling social network clans: improving genealogical clan classification with SVM neural classifiers and enhanced kernels — S.N. Deepa, K.R. Singh, A. Joram. International Journal of Information Technology 17(1), 513–528, 2025.
- A comparative analysis of the graph-theoretic representations of the genealogies, a social network approach — A. Joram, R. Karam. KEY 1(1), 12–22, 2025.
- Decomposition of Circular Ladder Graph — J. Pegu, K.R. Singh, L. Boro, A. Joram. National Academy Science Letters, 1–4, 2025.
- Representation and Analysis of Kinship, Based on the Naming Pattern — A. Joram, K.R. Singh. Journal of Family History 50(1), 3–15, 2025.

### Academic Contributions

- Reviewer for some of renowned Journals

### Skills

- Research methodology and data analysis
- Academic writing and peer review
- Curriculum design and interdisciplinary teaching
- Teaching Mathematics